

Name of Respondent Consumers Energy Company		This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		Date of Report (Mo, Da, Yr) / /		Year/Period of Report End of <u>2004/Q4</u>	
ELECTRIC ENERGY ACCOUNT							
Report below the information called for concerning the disposition of electric energy generated, purchased, exchanged and wheeled during the year.							
Line No.	Item (a)	MegaWatt Hours (b)	Line No.	Item (a)	MegaWatt Hours (b)		
1	SOURCES OF ENERGY		21	DISPOSITION OF ENERGY			
2	Generation (Excluding Station Use):		22	Sales to Ultimate Consumers (Including Interdepartmental Sales)	33,039,318		
3	Steam	19,033,045	23	Requirements Sales for Resale (See instruction 4, page 311.)	426,418		
4	Nuclear	5,335,635	24	Non-Requirements Sales for Resale (See instruction 4, page 311.)	2,515,010		
5	Hydro-Conventional	445,076	25	Energy Furnished Without Charge			
6	Hydro-Pumped Storage	1,333,581	26	Energy Used by the Company (Electric Dept Only, Excluding Station Use)	17,436		
7	Other	8,498	27	Total Energy Losses	2,737,552		
8	Less Energy for Pumping	1,872,029	28	TOTAL (Enter Total of Lines 22 Through 27) (MUST EQUAL LINE 20)	38,735,734		
9	Net Generation (Enter Total of lines 3 through 8)	24,283,806					
10	Purchases	14,451,928					
11	Power Exchanges:						
12	Received						
13	Delivered						
14	Net Exchanges (Line 12 minus line 13)						
15	Transmission For Other (Wheeling)						
16	Received						
17	Delivered						
18	Net Transmission for Other (Line 16 minus line 17)						
19	Transmission By Others Losses						
20	TOTAL (Enter Total of lines 9, 10, 14, 18 and 19)	38,735,734					

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MONTHLY PEAKS AND OUTPUT						
<p>(1) Report the monthly peak load and energy output. If the respondent has two or more power which are not physically integrated, furnish the required information for each non- integrated system.</p> <p>(2) Report on line 2 by month the system's output in Megawatt hours for each month.</p> <p>(3) Report on line 3 by month the non-requirements sales for resale. Include in the monthly amounts any energy losses associated with the sales.</p> <p>(4) Report on line 4 by month the system's monthly maximum megawatt load (60 minute integration) associated with the system.</p> <p>(5) Report on lines 5 and 6 the specified information for each monthly peak load reported on line 4.</p>						
NAME OF SYSTEM:						
Line No.	Month (a)	Total Monthly Energy (b)	Monthly Non-Requirements Sales for Resale & Associated Losses (c)	MONTHLY PEAK		
				Megawatts (See Instr. 4) (d)	Day of Month (e)	Hour (f)
29	January	3,396,290	155,620	5,615	6	1900
30	February	3,055,723	122,427	5,339	5	2000
31	March	3,378,584	392,098	5,076	16	2000
32	April	3,179,225	505,076	4,693	19	1100
33	May	3,243,289	419,583	5,288	12	1400
34	June	3,204,448	192,028	6,667	9	1200
35	July	3,394,989	160,131	6,958	21	1700
36	August	3,369,016	146,744	6,825	2	1500
37	September	3,162,722	85,068	6,279	15	1700
38	October	2,943,538	71,597	4,802	18	2000
39	November	3,029,303	200,663	5,209	29	1900
40	December	3,378,607	258,589	5,750	20	1900
41	TOTAL	38,735,734	2,709,624			

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STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)							
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Line No.	Item (a)	Plant Name: Campbell 1 & 2 (b)			Plant Name: Cobb 4-5 (c)		
		Steam			Steam		
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear)	Conventional			Conventional		
2	Type of Constr (Conventional, Outdoor, Boiler, etc)	1962			1956		
3	Year Originally Constructed	1967			1957		
4	Year Last Unit was Installed	668.90			312.50		
5	Total Installed Cap (Max Gen Name Plate Ratings-MW)	631			346		
6	Net Peak Demand on Plant - MW (60 minutes)	8784			8784		
7	Plant Hours Connected to Load	0			0		
8	Net Continuous Plant Capability (Megawatts)	620			320		
9	When Not Limited by Condenser Water	615			312		
10	When Limited by Condenser Water	143			104		
11	Average Number of Employees	4052510100			2092083200		
12	Net Generation, Exclusive of Plant Use - KWh	1949688			113291		
13	Cost of Plant: Land and Land Rights	75844442			19529174		
14	Structures and Improvements	304741053			111011037		
15	Equipment Costs	0			0		
16	Asset Retirement Costs	382535183			130653502		
17	Total Cost	571.8870			418.0912		
18	Cost per KW of Installed Capacity (line 17/5) Including	2857362			2247317		
19	Production Expenses: Oper, Supv, & Engr	59932254			33377160		
20	Fuel	0			0		
21	Coolants and Water (Nuclear Plants Only)	2274460			2246657		
22	Steam Expenses	0			0		
23	Steam From Other Sources	0			0		
24	Steam Transferred (Cr)	1494934			919656		
25	Electric Expenses	1560313			1068681		
26	Misc Steam (or Nuclear) Power Expenses	0			0		
27	Rents	1390902			1020280		
28	Allowances	1233848			857250		
29	Maintenance Supervision and Engineering	588527			1104971		
30	Maintenance of Structures	5677013			3514806		
31	Maintenance of Boiler (or reactor) Plant	1295172			1726616		
32	Maintenance of Electric Plant	424987			171142		
33	Maintenance of Misc Steam (or Nuclear) Plant	78729772			48254536		
34	Total Production Expenses	0.0194			0.0231		
35	Expenses per Net KWh	Coal	Oil		Coal	Gas	
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)	Tons	Barrels		Tons	Mcf	
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	2051500	9561	0	1127439	176295	0
38	Quantity (Units) of Fuel Burned	19649454	5838000	0	18661692	1017998	0
39	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)	25.894	46.221	0.000	29.566	6.678	0.000
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year	26.983	46.221	0.000	27.759	6.678	0.000
41	Average Cost of Fuel per Unit Burned	1.373	7.917	0.000	1.487	6.560	0.000
42	Average Cost of Fuel Burned per Million BTU	0.014	0.000	0.000	0.015	0.001	0.000
43	Average Cost of Fuel Burned per KWh Net Gen	9961.000	0.000	0.000	10143.000	0.000	0.000
44	Average BTU per KWh Net Generation						

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STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)(Continued)									
<p>9. Items under Cost of Plant are based on U. S. of A. Accounts. Production expenses do not include Purchased Power, System Control and Load Dispatching, and Other Expenses Classified as Other Power Supply Expenses. 10. For IC and GT plants, report Operating Expenses, Account Nos. 547 and 549 on Line 25 "Electric Expenses," and Maintenance Account Nos. 553 and 554 on Line 32, "Maintenance of Electric Plant." Indicate plants designed for peak load service. Designate automatically operated plants. 11. For a plant equipped with combinations of fossil fuel steam, nuclear steam, hydro, internal combustion or gas-turbine equipment, report each as a separate plant. However, if a gas-turbine unit functions in a combined cycle operation with a conventional steam unit, include the gas-turbine with the steam plant. 12. If a nuclear power generating plant, briefly explain by footnote (a) accounting method for cost of power generated including any excess costs attributed to research and development; (b) types of cost units used for the various components of fuel cost; and (c) any other informative data concerning plant type fuel used, fuel enrichment type and quantity for the report period and other physical and operating characteristics of plant.</p>									
Plant Name: <i>Whiting</i> (d)			Plant Name: <i>Kam 1 & 2</i> (e)			Plant Name: <i>Kam 3 & 4</i> (f)			Line No.
Steam			Steam			Steam			1
Conventional			Conventional			Conventional			2
1952			1959			1975			3
1953			1961			1977			4
317.80			544.00			1402.30			5
336			519			1221			6
8786			8762			868			7
0			0			0			8
328			515			1276			9
328			515			1276			10
122			128			99			11
2457992000			3372548000			223510000			12
474666			178947			50886			13
20538134			22011449			34089600			14
105465224			285620269			241433743			15
0			0			0			16
126478024			307810665			275574229			17
397.9799			565.8284			196.5159			18
1627831			2889776			1536233			19
40089024			52721561			20680794			20
0			0			0			21
2466667			1885399			1159793			22
0			0			0			23
0			0			0			24
1154573			1394343			902971			25
945994			1512016			962189			26
0			0			0			27
900449			334673			294443			28
1151703			1148706			415192			29
832298			932108			530730			30
2807449			6517422			1766699			31
864325			4158222			1106823			32
83142			265371			331300			33
52923455			73759597			29687167			34
0.0215			0.0219			0.1328			35
Coal	Oil		Coal	Oil	Gas	Gas	Oil		36
Tons	Barrels		Tons	Barrels	Mcf	Mcf	Barrels		37
1395897	7449	0	1753273	22732	46028	647716	467642	0	38
18533304	5880000	0	18994230	5796000	1025009	1041655	6319188	0	39
27.138	53.508	0.000	26.952	50.098	7.984	12.185	29.827	0.000	40
27.168	53.508	0.000	27.905	50.098	7.984	12.185	25.403	0.000	41
1.466	9.100	0.000	1.469	8.643	7.789	11.698	4.020	0.000	42
0.015	0.000	0.000	0.015	0.000	0.000	0.035	0.093	0.000	43
10543.000	0.000	0.000	9928.000	0.000	0.000	0.000	16240.000	0.000	44

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STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)							
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Line No.	Item (a)	Plant Name: <i>Weadock 7 & 8</i> (b)			Plant Name: <i>BCCobb 1-3</i> (c)		
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear	Steam			Steam		
2	Type of Constr (Conventional, Outdoor, Boiler, etc)	Conventional			Conventional		
3	Year Originally Constructed	1955			1948		
4	Year Last Unit was Installed	1958			1950		
5	Total Installed Cap (Max Gen Name Plate Ratings-MW)	312.50			207.00		
6	Net Peak Demand on Plant - MW (60 minutes)	317			0		
7	Plant Hours Connected to Load	8177			0		
8	Net Continuous Plant Capability (Megawatts)	0			0		
9	When Not Limited by Condenser Water	310			183		
10	When Limited by Condenser Water	302			183		
11	Average Number of Employees	122			18		
12	Net Generation, Exclusive of Plant Use - KWh	1939518800			0		
13	Cost of Plant: Land and Land Rights	144060			0		
14	Structures and Improvements	22932473			62857		
15	Equipment Costs	83811728			24895866		
16	Asset Retirement Costs	0			0		
17	Total Cost	106888261			24958723		
18	Cost per KW of Installed Capacity (line 17/5) Including	342.0424			120.5735		
19	Production Expenses: Oper, Supv, & Engr	1637164			262947		
20	Fuel	28959599			452		
21	Coolants and Water (Nuclear Plants Only)	0			0		
22	Steam Expenses	1560361			314014		
23	Steam From Other Sources	0			0		
24	Steam Transferred (Cr)	0			0		
25	Electric Expenses	1281447			145022		
26	Misc Steam (or Nuclear) Power Expenses	1173244			33769		
27	Rents	0			0		
28	Allowances	815711			0		
29	Maintenance Supervision and Engineering	322940			106379		
30	Maintenance of Structures	694681			24438		
31	Maintenance of Boiler (or reactor) Plant	4842208			78765		
32	Maintenance of Electric Plant	4261592			177476		
33	Maintenance of Misc Steam (or Nuclear) Plant	320581			6025		
34	Total Production Expenses	45869528			1149287		
35	Expenses per Net KWh	0.0237			0.0000		
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)	Coal	Oil	Gas	Gas		
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Tons	Barrels	Mcf	Mcf		
38	Quantity (Units) of Fuel Burned	985227	5729	103473	671	0	0
39	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)	19548647	5752969	1000000	1017696	0	0
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year	26.690	51.164	8.827	6.850	0.000	0.000
41	Average Cost of Fuel per Unit Burned	26.661	51.164	8.827	6.850	0.000	0.000
42	Average Cost of Fuel Burned per Million BTU	1.364	8.894	8.827	6.731	0.000	0.000
43	Average Cost of Fuel Burned per KWh Net Gen	0.014	0.000	0.000	0.000	0.000	0.000
44	Average BTU per KWh Net Generation	10001.000	0.000	0.000	0.000	0.000	0.000

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STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)(Continued)

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Plant Name: Campbell 3 (Total) (d)	Plant Name: Campbell 3 (CPCo) (e)	Plant Name: (f)	Line No.
Steam	Steam		1
Conventional	Conventional		2
1980	1980		3
1980	1980		4
871.25	812.96	0.00	5
850	793	0	6
8035	0	0	7
0	0	0	8
820	765	0	9
0	0	0	10
157	0	0	11
5327099000	4894882600	0	12
1748580	1748580	0	13
205947207	196631378	0	14
453241728	423755698	0	15
0	0	0	16
660937515	622135656	0	17
758.6083	765.2722	0.0000	18
0	2042620	0	19
0	69802283	0	20
0	0	0	21
0	1544746	0	22
0	0	0	23
0	0	0	24
0	1270955	0	25
0	1350538	0	26
0	0	0	27
0	2252143	0	28
0	725823	0	29
0	494581	0	30
0	4809211	0	31
0	608226	0	32
0	630711	0	33
0	85531837	0	34
0.0000	0.0175	0.0000	35
	Coal	Oil	
	Tons	Barrels	
0	2349782	14320	0
0	20484994	5838000	0
0.000	30.673	46.624	0.000
0.000	29.343	46.624	0.000
0.000	1.432	7.986	0.000
0.000	0.014	0.000	0.000
0.000	9851.000	0.000	0.000

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Line No.	Item (a)	Plant Name: Weadock (b)		Plant Name: Thetford (c)			
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear)	Gas Turbine Peaker		Gas Turbine Peaker			
2	Type of Constr (Conventional, Outdoor, Boiler, etc)	Conventional		Conventional			
3	Year Originally Constructed	1968		1970			
4	Year Last Unit was Installed	1969		1971			
5	Total Installed Cap (Max Gen Name Plate Ratings-MW)	18.60		222.15			
6	Net Peak Demand on Plant - MW (60 minutes)	13		158			
7	Plant Hours Connected to Load	17		37			
8	Net Continuous Plant Capability (Megawatts)	0		0			
9	When Not Limited by Condenser Water	17		234			
10	When Limited by Condenser Water	17		234			
11	Average Number of Employees	0		6			
12	Net Generation, Exclusive of Plant Use - KWh	164800		863080			
13	Cost of Plant: Land and Land Rights	0		126313			
14	Structures and Improvements	4512		432225			
15	Equipment Costs	1610073		27306258			
16	Asset Retirement Costs	0		0			
17	Total Cost	1614585		27864796			
18	Cost per KW of Installed Capacity (line 17/5) Including	86.8056		125.4323			
19	Production Expenses: Oper, Supv, & Engr	3175		16724			
20	Fuel	13090		220659			
21	Coolants and Water (Nuclear Plants Only)	0		0			
22	Steam Expenses	0		0			
23	Steam From Other Sources	0		0			
24	Steam Transferred (Cr)	0		0			
25	Electric Expenses	1482		67792			
26	Misc Steam (or Nuclear) Power Expenses	375		13288			
27	Rents	0		0			
28	Allowances	0		3424			
29	Maintenance Supervision and Engineering	2709		23391			
30	Maintenance of Structures	0		0			
31	Maintenance of Boiler (or reactor) Plant	0		0			
32	Maintenance of Electric Plant	2477		457960			
33	Maintenance of Misc Steam (or Nuclear) Plant	0		0			
34	Total Production Expenses	23308		803238			
35	Expenses per Net KWh	0.1414		0.9307			
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)	Gas				Gas	
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Mcf				Mcf	
38	Quantity (Units) of Fuel Burned	0	0	2113	0	0	32246
39	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)	0	0	1012305	0	0	1000031
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year	0.000	0.000	6.195	0.000	0.000	6.843
41	Average Cost of Fuel per Unit Burned	0.000	0.000	6.195	0.000	0.000	6.843
42	Average Cost of Fuel Burned per Million BTU	0.000	0.000	6.120	0.000	0.000	6.843
43	Average Cost of Fuel Burned per KWh Net Gen	0.000	0.000	0.079	0.000	0.000	0.256
44	Average BTU per KWh Net Generation	0.000	0.000	12979.000	0.000	0.000	37362.000

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Plant Name: Whiting (d)			Plant Name: Morrow (e)		Plant Name: Gaylord (f)		Line No.	
Gas Turbine Peaker			Gas Turbine Peaker		Gas Turbine Peaker		1	
Conventional			Conventional		Conventional		2	
1968			1968		1966		3	
1968			1969		1968		4	
18.60			36.00		82.60		5	
14			29		69		6	
11			11		176		7	
0			0		0		8	
17			34		85		9	
17			34		85		10	
0			0		6		11	
97000			173900		6311000		12	
0			0		1252		13	
42801			6579		207377		14	
1683657			3417387		6992278		15	
0			0		0		16	
1726458			3423966		7200907		17	
92.8203			95.1102		87.1781		18	
1869			3351		129057		19	
8739			23152		1050809		20	
0			0		0		21	
0			0		0		22	
0			0		0		23	
0			0		0		24	
1228			12434		74290		25	
221			1101		36362		26	
0			0		0		27	
0			0		0		28	
2218			2747		108041		29	
0			185		16858		30	
0			0		0		31	
390821			21045		262283		32	
0			0		0		33	
405096			64015		1677700		34	
4.1762			0.3681		0.2658		35	
Oil			Gas		Gas		36	
Barrels			Mcf		Mcf		37	
0	0	286	0	0	2834	0	0	109186
0	0	5838487	0	0	1067395	0	0	1000000
0.000	0.000	30.576	0.000	0.000	8.169	0.000	0.000	9.373
0.000	0.000	30.576	0.000	0.000	8.169	0.000	0.000	9.373
0.000	0.000	5.239	0.000	0.000	7.654	0.000	0.000	9.373
0.000	0.000	0.090	0.000	0.000	0.133	0.000	0.000	0.166
0.000	0.000	17195.000	0.000	0.000	17395.000	0.000	0.000	17300.000

Name of Respondent Consumers Energy Company		This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		Date of Report (Mo, Da, Yr) / /		Year/Period of Report End of 2004/Q4	
STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)							
<p>1. Report data for plant in Service only. 2. Large plants are steam plants with installed capacity (name plate rating) of 25,000 Kw or more. Report in this page gas-turbine and internal combustion plants of 10,000 Kw or more, and nuclear plants. 3. Indicate by a footnote any plant leased or operated as a joint facility. 4. If net peak demand for 60 minutes is not available, give data which is available, specifying period. 5. If any employees attend more than one plant, report on line 11 the approximate average number of employees assignable to each plant. 6. If gas is used and purchased on a term basis report the Btu content or the gas and the quantity of fuel burned converted to Mct. 7. Quantities of fuel burned (Line 38) and average cost per unit of fuel burned (Line 41) must be consistent with charges to expense accounts 501 and 547 (Line 42) as show on Line 20. 8. If more than one fuel is burned in a plant furnish only the composite heat rate for all fuels burned.</p>							
Line No.	Item (a)	Plant Name: Straits (b)			Plant Name: Campbell (c)		
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear)	Gas Turbine Peaker			Gas Turbine Peaker		
2	Type of Constr (Conventional, Outdoor, Boiler, etc)	Conventional			Conventional		
3	Year Originally Constructed	1969			1968		
4	Year Last Unit was Installed	1969			1968		
5	Total Installed Cap (Max Gen Name Plate Ratings-MW)	21.25			18.60		
6	Net Peak Demand on Plant - MW (60 minutes)	17			5		
7	Plant Hours Connected to Load	73			1		
8	Net Continuous Plant Capability (Megawatts)	0			0		
9	When Not Limited by Condenser Water	21			0		
10	When Limited by Condenser Water	21			0		
11	Average Number of Employees	0			0		
12	Net Generation, Exclusive of Plant Use - KWh	882700			4700		
13	Cost of Plant: Land and Land Rights	4694			0		
14	Structures and Improvements	50816			14999		
15	Equipment Costs	2027852			1670964		
16	Asset Retirement Costs	0			0		
17	Total Cost	2083362			1685963		
18	Cost per KW of Installed Capacity (line 17/5) Including	98.0406			90.6432		
19	Production Expenses: Oper, Supv, & Engr	17009			90		
20	Fuel	139035			389		
21	Coolants and Water (Nuclear Plants Only)	0			0		
22	Steam Expenses	0			0		
23	Steam From Other Sources	0			0		
24	Steam Transferred (Cr)	0			0		
25	Electric Expenses	12339			5220		
26	Misc Steam (or Nuclear) Power Expenses	3904			11		
27	Rents	0			0		
28	Allowances	0			0		
29	Maintenance Supervision and Engineering	13945			74		
30	Maintenance of Structures	1587			87		
31	Maintenance of Boiler (or reactor) Plant	0			0		
32	Maintenance of Electric Plant	28493			33353		
33	Maintenance of Misc Steam (or Nuclear) Plant	0			0		
34	Total Production Expenses	216312			39224		
35	Expenses per Net KWh	0.2451			8.3455		
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)	Gas			Oil		
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Mcf			Barrels		
38	Quantity (Units) of Fuel Burned	0	0	16587	0	0	12
39	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)	0	0	1000000	0	0	5847059
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year	0.000	0.000	8.382	0.000	0.000	32.004
41	Average Cost of Fuel per Unit Burned	0.000	0.000	8.382	0.000	0.000	32.004
42	Average Cost of Fuel Burned per Million BTU	0.000	0.000	8.382	0.000	0.000	5.476
43	Average Cost of Fuel Burned per KWh Net Gen	0.000	0.000	0.157	0.000	0.000	0.083
44	Average BTU per KWh Net Generation	0.000	0.000	18791.000	0.000	0.000	15106.000

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STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)(Continued)									
<p>9. Items under Cost of Plant are based on U. S. of A. Accounts. Production expenses do not include Purchased Power, System Control and Load Dispatching, and Other Expenses Classified as Other Power Supply Expenses. 10. For IC and GT plants, report Operating Expenses, Account Nos. 547 and 549 on Line 25 "Electric Expenses," and Maintenance Account Nos. 553 and 554 on Line 32, "Maintenance of Electric Plant." Indicate plants designed for peak load service. Designate automatically operated plants. 11. For a plant equipped with combinations of fossil fuel steam, nuclear steam, hydro, internal combustion or gas-turbine equipment, report each as a separate plant. However, if a gas-turbine unit functions in a combined cycle operation with a conventional steam unit, include the gas-turbine with the steam plant. 12. If a nuclear power generating plant, briefly explain by footnote (a) accounting method for cost of power generated including any excess costs attributed to research and development; (b) types of cost units used for the various components of fuel cost; and (c) any other informative data concerning plant type fuel used, fuel enrichment type and quantity for the report period and other physical and operating characteristics of plant.</p>									
Plant Name: <u>Palisades</u> (d)			Plant Name: <u>Big Rock</u> (e)			Plant Name: _____ (f)			Line No.
Nuclear			Nuclear						1
Conventional			Conventional						2
1970			1962						3
1970			1962						4
811.75			75.00			0.00			5
806			0			0			6
7166			0			0			7
792			0			0			8
803			0			0			9
767			0			0			10
536			104			0			11
5335635000			0			0			12
2566108			0			0			13
188060131			0			0			14
645959791			0			0			15
0			0			0			16
836586030			0			0			17
1030.5957			0.0000			0.0000			18
13185146			0			0			19
19724960			0			0			20
4676138			0			0			21
12428650			0			0			22
0			0			0			23
0			0			0			24
5599915			0			0			25
37912592			0			0			26
598360			0			0			27
0			0			0			28
10945443			0			0			29
855567			0			0			30
27894724			0			0			31
7485874			0			0			32
3404625			0			0			33
144711994			0			0			34
0.0271			0.0000			0.0000			35
Nuclear									36
KG of									37
750	0	0	0	0	0	0	0	0	38
58931098	0	0	0	0	0	0	0	0	39
1114.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	40
26300.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	41
0.335	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	42
0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	43
11023.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44

Name of Respondent Consumers Energy Company		This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		Date of Report (Mo, Da, Yr) / /		Year/Period of Report End of 2004/Q4	
STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)							
<p>1. Report data for plant in Service only. 2. Large plants are steam plants with installed capacity (name plate rating) of 25,000 Kw or more. Report in this page gas-turbine and internal combustion plants of 10,000 Kw or more, and nuclear plants. 3. Indicate by a footnote any plant leased or operated as a joint facility. 4. If net peak demand for 60 minutes is not available, give data which is available, specifying period. 5. If any employees attend more than one plant, report on line 11 the approximate average number of employees assignable to each plant. 6. If gas is used and purchased on a therm basis report the Btu content or the gas and the quantity of fuel burned converted to Mct. 7. Quantities of fuel burned (Line 38) and average cost per unit of fuel burned (Line 41) must be consistent with charges to expense accounts 501 and 547 (Line 42) as show on Line 20. 8. If more than one fuel is burned in a plant furnish only the composite heat rate for all fuels burned.</p>							
Line No.	Item (a)	Plant Name: (b)		Plant Name: (c)			
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear						
2	Type of Constr (Conventional, Outdoor, Boiler, etc)						
3	Year Originally Constructed						
4	Year Last Unit was Installed						
5	Total Installed Cap (Max Gen Name Plate Ratings-MW)	0.00		0.00			
6	Net Peak Demand on Plant - MW (60 minutes)	0		0			
7	Plant Hours Connected to Load	0		0			
8	Net Continuous Plant Capability (Megawatts)	0		0			
9	When Not Limited by Condenser Water	0		0			
10	When Limited by Condenser Water	0		0			
11	Average Number of Employees	0		0			
12	Net Generation, Exclusive of Plant Use - KWh	0		0			
13	Cost of Plant: Land and Land Rights	0		0			
14	Structures and Improvements	0		0			
15	Equipment Costs	0		0			
16	Asset Retirement Costs	0		0			
17	Total Cost	0.0000		0.0000			
18	Cost per KW of Installed Capacity (line 17/5) Including	0		0			
19	Production Expenses: Oper, Supv, & Engr	0		0			
20	Fuel	0		0			
21	Coolants and Water (Nuclear Plants Only)	0		0			
22	Steam Expenses	0		0			
23	Steam From Other Sources	0		0			
24	Steam Transferred (Cr)	0		0			
25	Electric Expenses	0		0			
26	Misc Steam (or Nuclear) Power Expenses	0		0			
27	Rents	0		0			
28	Allowances	0		0			
29	Maintenance Supervision and Engineering	0		0			
30	Maintenance of Structures	0		0			
31	Maintenance of Boiler (or reactor) Plant	0		0			
32	Maintenance of Electric Plant	0		0			
33	Maintenance of Misc Steam (or Nuclear) Plant	0		0			
34	Total Production Expenses	0.0000		0.0000			
35	Expenses per Net KWh						
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)						
37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)						
38	Quantity (Units) of Fuel Burned	0	0	0	0	0	0
39	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)	0	0	0	0	0	0
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year	0.000	0.000	0.000	0.000	0.000	0.000
41	Average Cost of Fuel per Unit Burned	0.000	0.000	0.000	0.000	0.000	0.000
42	Average Cost of Fuel Burned per Million BTU	0.000	0.000	0.000	0.000	0.000	0.000
43	Average Cost of Fuel Burned per KWh Net Gen	0.000	0.000	0.000	0.000	0.000	0.000
44	Average BTU per KWh Net Generation	0.000	0.000	0.000	0.000	0.000	0.000

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STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)(Continued)											
<p>9. Items under Cost of Plant are based on U. S. of A. Accounts. Production expenses do not include Purchased Power, System Control and Load Dispatching, and Other Expenses Classified as Other Power Supply Expenses. 10. For IC and GT plants, report Operating Expenses, Account Nos. 547 and 549 on Line 25 "Electric Expenses," and Maintenance Account Nos. 553 and 554 on Line 32, "Maintenance of Electric Plant." Indicate plants designed for peak load service. Designate automatically operated plants. 11. For a plant equipped with combinations of fossil fuel steam, nuclear steam, hydro, internal combustion or gas-turbine equipment, report each as a separate plant. However, if a gas-turbine unit functions in a combined cycle operation with a conventional steam unit, include the gas-turbine with the steam plant. 12. If a nuclear power generating plant, briefly explain by footnote (a) accounting method for cost of power generated including any excess costs attributed to research and development; (b) types of cost units used for the various components of fuel cost; and (c) any other informative data concerning plant type fuel used, fuel enrichment type and quantity for the report period and other physical and operating characteristics of plant.</p>											
Plant Name: (d)			Plant Name: (e)			Plant Name: (f)			Line No.		
									1		
									2		
									3		
									4		
0.00			0.00			0.00			5		
0			0			0			6		
0			0			0			7		
0			0			0			8		
0			0			0			9		
0			0			0			10		
0			0			0			11		
0			0			0			12		
0			0			0			13		
0			0			0			14		
0			0			0			15		
0			0			0			16		
0			0			0			17		
0.0000			0.0000			0.0000			18		
0			0			0			19		
0			0			0			20		
0			0			0			21		
0			0			0			22		
0			0			0			23		
0			0			0			24		
0			0			0			25		
0			0			0			26		
0			0			0			27		
0			0			0			28		
0			0			0			29		
0			0			0			30		
0			0			0			31		
0			0			0			32		
0			0			0			33		
0			0			0			34		
0.0000			0.0000			0.0000			35		
									36		
									37		
0			0			0			38		
0			0			0			39		
0.000			0.000			0.000			40		
0.000			0.000			0.000			41		
0.000			0.000			0.000			42		
0.000			0.000			0.000			43		
0.000			0.000			0.000			44		

Name of Respondent Consumers Energy Company	This Report is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report 2004/Q4
FOOTNOTE DATA			

Schedule Page: 402 Line No.: 20 Column: b

JHC 1&2

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$4,135,501.

Schedule Page: 402 Line No.: 20 Column: c

BCCobb 4&5

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$903,297.

Schedule Page: 402 Line No.: 20 Column: d

JRWhiting 1-3

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$1,787,225.

Schedule Page: 402 Line No.: 20 Column: e

Karn 1&2 -

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$2,294,535.

Schedule Page: 402 Line No.: 20 Column: f

Karn 3&4 -

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$906,412.

Schedule Page: 402 Line No.: 28 Column: b

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: c

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: d

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: e

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: f

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402.1 Line No.: -1 Column: d

J H Campbell Unit 3 is jointly owned by Consumers Energy Company, Michigan Public Power Agency and Wolverine Power Supply Cooperative, Inc. Consumers Energy Company is the operator of Campbell 3. Information in Column (d), lines 1 through 18 is for the entire plant. Information in Column (e), lines 5 through 12 reflect Consumers Energy Company's 93.31% undivided interest in the plant. Lines 13 through 35 reflect the costs and expenses of the plant as shown on Consumers Energy Company's books. Plant investment reflects the amount in service at December 31, 2004.

Schedule Page: 402.1 Line No.: 20 Column: b

Schedule Page: 402.1 Line No.: 20 Column: b

JCWeadock -

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$1,487,739.

Schedule Page: 402.1 Line No.: 20 Column: e

JHCampbell 3 (Consumers Share) -

Includes ash, fuel handling, and other non-fuel clause expenses in the amount of \$192,981.

Schedule Page: 402.1 Line No.: 28 Column: e

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402.2 Line No.: 28 Column: c

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402.3 Line No.: -1 Column: d

RESPONSE TO INSTRUCTION 12

A. The Company owned two nuclear power generating plants. The Palisades Plant's operating and costs of generating power were charged to the applicable operation and

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Consumers Energy Company			
FOOTNOTE DATA			

maintenance accounts as prescribed by the Federal Energy Regulatory Commission. The Big Rock Point Plant was retired August 97 and is being decommissioned.

B. The Company is charging Fuel Expense for the costs of fabrication, material and lease* costs on the basis of recognizing the total amount of such costs over the estimated useful life of the fuel. Each accounting period's charges are based on the estimated useful life expired during that period as expressed in megawatt days per metric ton. Fabrication and material are assigned equally to each fuel assembly in each batch of like fuel elements. Perpetual storage was charges to Fuel Expense in the same manner as fabrication and material until April 7, 1983. Since then, perpetual storage is charged to Fuel Expense based on the Department of Energy's contracted rate of one mill/kWh of net generation. This is a result of the Nuclear Waste Policy Act of 1982. Unburned fuel in the Big Rock Point Plant reactor at the time of plant shutdown was charged to fuel expense in 1997.

* Note: Starting in November 2001 Fuel is purchased and capitalized on the basis of useful life.

C. The Palisades Plant has a pressurized water reactor and uses uranium dioxide for fuel.

The Company has a full-term, 40-year operating license for the Palisades Nuclear Plant. Palisades license expires in the year 2011.

D. The National Energy Policy Act of 1992 established an additional nuclear fuel expense for decontamination and decommissioning of Department of Energy enrichment facilities. The expense is recovered at the rate of 1/12 the annual fee per month.

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HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants)					
<p>1. Large plants are hydro plants of 10,000 Kw or more of installed capacity (name plate ratings)</p> <p>2. If any plant is leased, operated under a license from the Federal Energy Regulatory Commission, or operated as a joint facility, indicate such facts in a footnote. If licensed project, give project number.</p> <p>3. If net peak demand for 60 minutes is not available, give that which is available specifying period.</p> <p>4. If a group of employees attends more than one generating plant, report on line 11 the approximate average number of employees assignable to each plant.</p>					
Line No.	Item (a)	FERC Licensed Project No. 2452 Plant Name: HARDY (b)	FERC Licensed Project No. 2599 Plant Name: HODENPYL (c)		
1	Kind of Plant (Run-of-River or Storage)	Storage	Run-of-River		
2	Plant Construction type (Conventional or Outdoor)	Conventional	Conventional		
3	Year Originally Constructed	1931	1925		
4	Year Last Unit was Installed	1931	1925		
5	Total installed cap (Gen name plate Rating in MW)	30.00	15.10		
6	Net Peak Demand on Plant-Megawatts (60 minutes)	33	10		
7	Plant Hours Connect to Load	6,229	8,784		
8	Net Plant Capability (in megawatts)				
9	(a) Under Most Favorable Oper Conditions	32	18		
10	(b) Under the Most Adverse Oper Conditions	4	2		
11	Average Number of Employees	0	0		
12	Net Generation, Exclusive of Plant Use - Kwh	113,154,000	34,207,700		
13	Cost of Plant				
14	Land and Land Rights	332,260	40,721		
15	Structures and Improvements	908,598	559,817		
16	Reservoirs, Dams, and Waterways	5,443,091	3,459,452		
17	Equipment Costs	2,089,013	1,972,599		
18	Roads, Railroads, and Bridges	0	0		
19	Asset Retirement Costs	0	0		
20	TOTAL cost (Total of 14 thru 19)	8,772,962	6,032,589		
21	Cost per KW of Installed Capacity (line 20 / 5)	292.4321	399.5092		
22	Production Expenses				
23	Operation Supervision and Engineering	52,640	15,914		
24	Water for Power	64,991	31,990		
25	Hydraulic Expenses	121,789	115,981		
26	Electric Expenses	91,545	100,228		
27	Misc Hydraulic Power Generation Expenses	49,171	19,675		
28	Rents	0	0		
29	Maintenance Supervision and Engineering	21,235	11,449		
30	Maintenance of Structures	22,061	2,809		
31	Maintenance of Reservoirs, Dams, and Waterways	111,463	57,833		
32	Maintenance of Electric Plant	125,497	28,208		
33	Maintenance of Misc Hydraulic Plant	7,534	8,559		
34	Total Production Expenses (total 23 thru 33)	667,926	392,646		
35	Expenses per net KWh	0.0059	0.0115		

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HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)			
5. The items under Cost of Plant represent accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production Expenses do not include Purchased Power, System control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."			
6. Report as a separate plant any plant equipped with combinations of steam, hydro, internal combustion engine, or gas turbine equipment.			
FERC Licensed Project No. 2580 Plant Name: TIPPY (d)	FERC Licensed Project No. 0 Plant Name: (e)	FERC Licensed Project No. 0 Plant Name: (f)	Line No.
Run-of-River			1
Conventional			2
1918			3
1918			4
20.10	0.00	0.00	5
16	0	0	6
8,784	0	0	7
			8
21	0	0	9
5	0	0	10
7	0	0	11
60,900,000	0	0	12
			13
4,380	0	0	14
677,119	0	0	15
4,930,360	0	0	16
2,018,455	0	0	17
13,383	0	0	18
0	0	0	19
7,643,697	0	0	20
380.2834	0.0000	0.0000	21
			22
28,331	0	0	23
38,056	0	0	24
227,552	0	0	25
93,867	0	0	26
52,660	0	0	27
0	0	0	28
15,387	0	0	29
8,660	0	0	30
49,227	0	0	31
9,545	0	0	32
14,453	0	0	33
537,738	0	0	34
0.0088	0.0000	0.0000	35

Name of Respondent Consumers Energy Company		This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of <u>2004/Q4</u>
HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants)					
<p>1. Large plants are hydro plants of 10,000 Kw or more of installed capacity (name plate ratings)</p> <p>2. If any plant is leased, operated under a license from the Federal Energy Regulatory Commission, or operated as a joint facility, indicate such facts in a footnote. If licensed project, give project number.</p> <p>3. If net peak demand for 60 minutes is not available, give that which is available specifying period.</p> <p>4. If a group of employees attends more than one generating plant, report on line 11 the approximate average number of employees assignable to each plant.</p>					
Line No.	Item (a)	FERC Licensed Project No. 0 Plant Name: (b)	FERC Licensed Project No. 0 Plant Name: (c)		
1	Kind of Plant (Run-of-River or Storage)				
2	Plant Construction type (Conventional or Outdoor)				
3	Year Originally Constructed				
4	Year Last Unit was Installed				
5	Total installed cap (Gen name plate Rating in MW)	0.00	0.00		
6	Net Peak Demand on Plant-Megawatts (60 minutes)	0	0		
7	Plant Hours Connect to Load	0	0		
8	Net Plant Capability (in megawatts)				
9	(a) Under Most Favorable Oper Conditions	0	0		
10	(b) Under the Most Adverse Oper Conditions	0	0		
11	Average Number of Employees	0	0		
12	Net Generation, Exclusive of Plant Use - Kwh	0	0		
13	Cost of Plant				
14	Land and Land Rights	0	0		
15	Structures and Improvements	0	0		
16	Reservoirs, Dams, and Waterways	0	0		
17	Equipment Costs	0	0		
18	Roads, Railroads, and Bridges	0	0		
19	Asset Retirement Costs	0	0		
20	TOTAL cost (Total of 14 thru 19)	0	0		
21	Cost per KW of Installed Capacity (line 20 / 5)	0.0000	0.0000		
22	Production Expenses				
23	Operation Supervision and Engineering	0	0		
24	Water for Power	0	0		
25	Hydraulic Expenses	0	0		
26	Electric Expenses	0	0		
27	Misc Hydraulic Power Generation Expenses	0	0		
28	Rents	0	0		
29	Maintenance Supervision and Engineering	0	0		
30	Maintenance of Structures	0	0		
31	Maintenance of Reservoirs, Dams, and Waterways	0	0		
32	Maintenance of Electric Plant	0	0		
33	Maintenance of Misc Hydraulic Plant	0	0		
34	Total Production Expenses (total 23 thru 33)	0	0		
35	Expenses per net KWh	0.0000	0.0000		

Name of Respondent Consumers Energy Company		This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of <u>2004/Q4</u>
HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)					
5. The items under Cost of Plant represent accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production Expenses do not include Purchased Power, System control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."					
6. Report as a separate plant any plant equipped with combinations of steam, hydro, internal combustion engine, or gas turbine equipment.					
FERC Licensed Project No. 0 Plant Name: (d)	FERC Licensed Project No. 0 Plant Name: (e)	FERC Licensed Project No. 0 Plant Name: (f)	Line No.		
			1		
			2		
			3		
			4		
0.00	0.00	0.00	5		
0	0	0	6		
0	0	0	7		
			8		
0	0	0	9		
0	0	0	10		
0	0	0	11		
0	0	0	12		
			13		
0	0	0	14		
0	0	0	15		
0	0	0	16		
0	0	0	17		
0	0	0	18		
0	0	0	19		
0	0	0	20		
0.0000	0.0000	0.0000	21		
			22		
0	0	0	23		
0	0	0	24		
0	0	0	25		
0	0	0	26		
0	0	0	27		
0	0	0	28		
0	0	0	29		
0	0	0	30		
0	0	0	31		
0	0	0	32		
0	0	0	33		
0	0	0	34		
0.0000	0.0000	0.0000	35		

Name of Respondent Consumers Energy Company		This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of <u>2004/Q4</u>
HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants)					
<p>1. Large plants are hydro plants of 10,000 Kw or more of installed capacity (name plate ratings)</p> <p>2. If any plant is leased, operated under a license from the Federal Energy Regulatory Commission, or operated as a joint facility, indicate such facts in a footnote. If licensed project, give project number.</p> <p>3. If net peak demand for 60 minutes is not available, give that which is available specifying period.</p> <p>4. If a group of employees attends more than one generating plant, report on line 11 the approximate average number of employees assignable to each plant.</p>					
Line No.	Item (a)	FERC Licensed Project No. Plant Name: (b)	0	FERC Licensed Project No. Plant Name: (c)	0
1	Kind of Plant (Run-of-River or Storage)				
2	Plant Construction type (Conventional or Outdoor)				
3	Year Originally Constructed				
4	Year Last Unit was Installed				
5	Total installed cap (Gen name plate Rating in MW)		0.00		0.00
6	Net Peak Demand on Plant-Megawatts (60 minutes)		0		0
7	Plant Hours Connect to Load		0		0
8	Net Plant Capability (in megawatts)				
9	(a) Under Most Favorable Oper Conditions		0		0
10	(b) Under the Most Adverse Oper Conditions		0		0
11	Average Number of Employees		0		0
12	Net Generation, Exclusive of Plant Use - Kwh		0		0
13	Cost of Plant				
14	Land and Land Rights		0		0
15	Structures and Improvements		0		0
16	Reservoirs, Dams, and Waterways		0		0
17	Equipment Costs		0		0
18	Roads, Railroads, and Bridges		0		0
19	Asset Retirement Costs		0		0
20	TOTAL cost (Total of 14 thru 19)		0		0
21	Cost per KW of Installed Capacity (line 20 / 5)		0.0000		0.0000
22	Production Expenses				
23	Operation Supervision and Engineering		0		0
24	Water for Power		0		0
25	Hydraulic Expenses		0		0
26	Electric Expenses		0		0
27	Misc Hydraulic Power Generation Expenses		0		0
28	Rents		0		0
29	Maintenance Supervision and Engineering		0		0
30	Maintenance of Structures		0		0
31	Maintenance of Reservoirs, Dams, and Waterways		0		0
32	Maintenance of Electric Plant		0		0
33	Maintenance of Misc Hydraulic Plant		0		0
34	Total Production Expenses (total 23 thru 33)		0		0
35	Expenses per net KWh		0.0000		0.0000

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)			
<p>5. The items under Cost of Plant represent accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production Expenses do not include Purchased Power, System control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."</p> <p>6. Report as a separate plant any plant equipped with combinations of steam, hydro, internal combustion engine, or gas turbine equipment.</p>			
FERC Licensed Project No. 0 Plant Name: (d)	FERC Licensed Project No. 0 Plant Name: (e)	FERC Licensed Project No. 0 Plant Name: (f)	Line No.
			1
			2
			3
			4
0.00	0.00	0.00	5
0	0	0	6
0	0	0	7
			8
0	0	0	9
0	0	0	10
0	0	0	11
0	0	0	12
			13
0	0	0	14
0	0	0	15
0	0	0	16
0	0	0	17
0	0	0	18
0	0	0	19
0	0	0	20
0.0000	0.0000	0.0000	21
			22
0	0	0	23
0	0	0	24
0	0	0	25
0	0	0	26
0	0	0	27
0	0	0	28
0	0	0	29
0	0	0	30
0	0	0	31
0	0	0	32
0	0	0	33
0	0	0	34
0.0000	0.0000	0.0000	35

Name of Respondent Consumers Energy Company		This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission		Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
PUMPED STORAGE GENERATING PLANT STATISTICS (Large Plants)					
<p>1. Large plants and pumped storage plants of 10,000 Kw or more of installed capacity (name plate ratings)</p> <p>2. If any plant is leased, operating under a license from the Federal Energy Regulatory Commission, or operated as a joint facility, indicate such facts in a footnote. Give project number.</p> <p>3. If net peak demand for 60 minutes is not available, give the which is available, specifying period.</p> <p>4. If a group of employees attends more than one generating plant, report on line 8 the approximate average number of employees assignable to each plant.</p> <p>5. The items under Cost of Plant represent accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production Expenses do not include Purchased Power System Control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."</p>					
Line No.	Item (a)	FERC Licensed Project No. 2680 Plant Name: LUDINGTON (Total) (b)			
1	Type of Plant Construction (Conventional or Outdoor)	Conventional			
2	Year Originally Constructed	1973			
3	Year Last Unit was Installed	1973			
4	Total installed cap (Gen name plate Rating in MW)	1,978			
5	Net Peak Demand on Plant-Megawatts (60 minutes)	1,758			
6	Plant Hours Connect to Load While Generating	4,174			
7	Net Plant Capability (in megawatts)	1,872			
8	Average Number of Employees	38			
9	Generation, Exclusive of Plant Use - Kwh	2,764,264,000			
10	Energy Used for Pumping	3,877,248,000			
11	Net Output for Load (line 9 - line 10) - Kwh	-1,112,984,000			
12	Cost of Plant				
13	Land and Land Rights	4,872,559			
14	Structures and Improvements	35,347,688			
15	Reservoirs, Dams, and Waterways	213,782,543			
16	Water Wheels, Turbines, and Generators	84,986,170			
17	Accessory Electric Equipment	16,426,024			
18	Miscellaneous Powerplant Equipment	3,723,645			
19	Roads, Railroads, and Bridges	3,398,333			
20	Asset Retirement Costs				
21	Total cost (total 13 thru 20)	362,536,962			
22	Cost per KW of installed cap (line 21 / 4)	183.2105			
23	Production Expenses				
24	Operation Supervision and Engineering				
25	Water for Power				
26	Pumped Storage Expenses				
27	Electric Expenses				
28	Misc Pumped Storage Power generation Expenses				
29	Rents				
30	Maintenance Supervision and Engineering				
31	Maintenance of Structures				
32	Maintenance of Reservoirs, Dams, and Waterways				
33	Maintenance of Electric Plant				
34	Maintenance of Misc Pumped Storage Plant				
35	Production Exp Before Pumping Exp (24 thru 34)				
36	Pumping Expenses				
37	Total Production Exp (total 35 and 36)				
38	Expenses per KWh (line 37 / 9)				

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of <u>2004/Q4</u>
PUMPED STORAGE GENERATING PLANT STATISTICS (Large Plants) (Continued)			
<p>6. Pumping energy (Line 10) is that energy measured as input to the plant for pumping purposes.</p> <p>7. Include on Line 36 the cost of energy used in pumping into the storage reservoir. When this item cannot be accurately computed leave Lines 36, 37 and 38 blank and describe at the bottom of the schedule the company's principal sources of pumping power, the estimated amounts of energy from each station or other source that individually provides more than 10 percent of the total energy used for pumping, and production expenses per net MWH as reported herein for each source described. Group together stations and other resources which individually provide less than 10 percent of total pumping energy. If contracts are made with others to purchase power for pumping, give the supplier contract number, and date of contract.</p>			
FERC Licensed Project No. 2680 Plant Name: LUDINGTON (CPCo %) (c)	FERC Licensed Project No. 0 Plant Name: (d)	FERC Licensed Project No. 0 Plant Name: (e)	Line No.
Conventional			1
1973			2
1973			3
1,009			4
897			5
			6
955			7
			8
1,333,581,000			9
1,872,029,000			10
-538,448,000			11
			12
2,439,473			13
16,900,856			14
97,934,560			15
41,573,705			16
2,888,087			17
1,862,630			18
1,535,548			19
			20
165,134,859			21
163.6295			22
			23
514,375			24
825,259			25
147,513			26
525,813			27
450,060			28
84			29
204,907			30
58,414			31
498,471			32
1,143,901			33
763,043			34
5,131,840			35
29,028,797			36
34,160,637			37
0.0256			38

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Name of Respondent	This Report is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report
Consumers Energy Company			2004/Q4
FOOTNOTE DATA			

Schedule Page: 408 Line No.: -1 Column: b

*The Ludington Project is jointly owned by joint licensees Consumers Energy Company and The Detroit Edison Company. Consumers Energy Company is the operator of the project. Information in column (b), Lines 1 through 22, is for entire Plant. Information in Column (c), Lines 4 through 11, reflects Consumers Energy Company's 51% undivided interest in the Plant. Lines 13 through 38 reflect the costs and expenses of the Plant as shown on Consumers Energy Company's books. Plant investment reflects the amount in service at December 31, 2004.

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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GENERATING PLANT STATISTICS (Small Plants)

1. Small generating plants are steam plants of, less than 25,000 Kw; internal combustion and gas turbine-plants, conventional hydro plants and pumped storage plants of less than 10,000 Kw installed capacity (name plate rating). 2. Designate any plant leased from others, operated under a license from the Federal Energy Regulatory Commission, or operated as a joint facility, and give a concise statement of the facts in a footnote. If licensed project, give project number in footnote.

Line No.	Name of Plant (a)	Year Orig. Const. (b)	Installed Capacity Name Plate Rating (In MW) (c)	Net Peak Demand MW (60 min.) (d)	Net Generation Excluding Plant Use (e)	Cost of Plant (f)
1	Hydraulic:					
2	Foote - FPC #2436	1918	9.00	9.6	30,161,500	4,344,008
3	Cooke - FPC #2450	1911	9.00	7.0	25,952,000	3,198,231
4	Five Channels - FPC #2453	1912	6.00	5.9	23,340,400	3,781,679
5	Loud - FPC #2449	1913	4.00	4.8	17,391,512	3,248,688
6	Alcona - FPC #2447	1924	8.00	7.8	26,469,300	3,756,694
7	Mio - FPC #2448	1916	4.96	4.2	14,105,000	3,387,560
8	Croton - FPC #2468	1907	8.85	8.1	42,938,200	8,727,882
9	Rogers - FPC #2451	1906	6.76	7.7	30,357,600	5,135,399
10	Webber - FPC #2566	1907	4.30	3.2	13,051,400	6,940,029
11	Calkins Bridge (Allegan) - FPC #785	1938	2.55	2.3	13,047,000	1,985,094
12						
13						
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Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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GENERATING PLANT STATISTICS (Small Plants) (Continued)

3. List plants appropriately under subheadings for steam, hydro, nuclear, internal combustion and gas turbine plants. For nuclear, see instruction 11, Page 403. 4. If net peak demand for 60 minutes is not available, give the which is available, specifying period. 5. If any plant is equipped with combinations of steam, hydro internal combustion or gas turbine equipment, report each as a separate plant. However, if the exhaust heat from the gas turbine is utilized in a steam turbine regenerative feed water cycle, or for preheated combustion air in a boiler, report as one plant.

Plant Cost (Incl Asset Retire. Costs) Per MW (g)	Operation Exc'l. Fuel (h)	Production Expenses		Kind of Fuel (k)	Fuel Costs (in cents (per Million Btu) (l)	Line No.
		Fuel (i)	Maintenance (j)			
						1
482,667	174,439		167,399			2
355,359	290,015		188,265			3
630,280	433,309		658,213			4
812,172	203,637		73,066			5
469,587	213,116		57,186			6
682,976	239,154		48,669			7
986,201	408,870		191,842			8
759,674	126,989		114,793			9
1,613,960	147,010		160,520			10
778,468	145,189		57,310			11
						12
						13
						14
						15
						16
						17
						18
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STEAM-ELECTRIC GENERATING PLANTS

1. Include on this page steam-electric plants of 25,000 Kw (name plate rating) or more of installed capacity.
 2. Report the information called for concerning generating plants and equipment at year end. Show unit type installation, boiler, and turbine-generator on same line.
 3. Exclude plant, the book cost of which is included in Account 121, *Nonutility Property*.
 4. Designate any generating plant or portion thereof for which the respondent is not the sole owner. If such property is leased from another company give name of lessor, date and term of lease, and annual rent. For any generating plant, other than a leased plant or portion thereof for which the respondent is not the sole

owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving details as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output, expenses or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
 5. Designate any generating plant or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent, and how determined. Specify whether lessee is an associated company.
 6. Designate any plant or equipment owned, not

Line No.	Name of Plant	Location of Plant	BOILERS (Include both ratings for the boiler and the turbine-generator of dual-rated installations)				
			Number and Year Installed	Kind of Fuel and Method of Firing	Rated Pressure (In psig)	Steam Temperature (Indicate reheat boilers as 1050/1000)	Rated Maximum Continuous M lbs Steam per Hour
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Palisades (Nuclear)	Covert Township	1 - 1972	Nuclear	2,085*	514**	11,200**
2							
3	J H Campbell	West Olive	1 - 1962	Coal-Pulverized	2,700	1050/1000	1,925
4							
5			1 - 1967	Coal-Pulverized	3,800	1000/1000	2,550
6			1 - 1980 (1)	Coal-Pulverized	2,900	1005/1005	6,000
7							
8	B C Cobb	Muskegon	1 - 1949 (2)	Gas	950	900	600
9			1 - 1949 (2)	Gas	950	900	600
10			1 - 1949 (2)	Gas	950	900	600
11			1 - 1956	Coal-Pulverized	2,300	1050/1000	1,050
12			1 - 1957	Coal-Pulverized	2,300	1050/1000	1,050
13							
14	D E Karn	Essexville	1 - 1959	Coal-Pulverized	2,725	1050/1050	1,750
15							
16			1 - 1961	Coal-Pulverized	2,700	1050/1000	1,750
17							
18			1 - 1975	Crude & Residual Oil & Natural Gas	2,250	955/955	4,625
19							
20			1 - 1977	Crude, Residual & Natural Gas	2,250	955/955	4,625
21							
22							
23	J C Weadock	Essexville	1 - 1955	Coal-Pulverized	2,300	1050/1000	1,050
24			1 - 1958	Coal-Pulverized	2,300	1050/1000	1,050
25							
26	J R Whiting	Near Erie	1 - 1952	Coal-Pulverized	1,650	1000/1000	690
27			1 - 1952	Coal-Pulverized	1,650	1000/1000	690
28			1 - 1953	Coal-Pulverized	1,650	1000/1000	850
30	See Note (1) and (2) on Page 413C						
31							
* Primary system pressure			** Steam generator output				

STEAM-ELECTRIC GENERATING PLANTS (Continued)												
operated, and not leased to another company. If such a plant or equipment was not operated within the past year, explain whether it has been retired in the books of accounts or what disposition of the plant or equipment							and its book cost are contemplated. 7. Report gas-turbines operated in a combined cycle with a conventional steam unit with its associated steam unit.					
TURBINE-GENERATORS (Report cross-compound turbine-generator units on two lines - H.P. section and I.P. section. Designate units with shaft connected boiler feed pumps. Give capacity rating of pumps in terms of full load requirements)											Plant Capacity, Maximum Generator Nameplate Rating (Should agree with Column (n))	Line No.
Year Installed	TURBINES (Include both ratings for the boiler and the turbine-generator of dual-rated installations.)				GENERATORS							
	Max. Rating Mega-watt	Type (Indicate tandem-compound (TC); cross-compound (CC); single casing (SC); topping unit (T); and noncondensing (NC) Show back pressures)	Steam Pressure at Throttle psig.	RPM	Nameplate Rating in Megawatts		Hydrogen Pressure (Designate air cooled generators)	Power Factor	Voltage (in KV) (If other than 3 phase, 60 cycle, indicate other characteristic)			
					At Minimum Hydrogen Pressure	At Maximum Hydrogen Pressure (Include both ratings for the boiler and the turbine-generator of dual-rated installations)						
(h)	(i)	(j)	(k)	(l)	(m)	(n)	Min. (o)	Max. (p)	(q)	(r)	(s)	
1972	811.7	TC	720	1800	-	811.7	0.5	75.0	0.85	22.0	811.7	1
1962	265	CC	2400	3600	97.4 + 97.4 +	132.5 132.5	25.0 25.0	45.0 45.0	0.85 0.85	16.0 16.0		2
1967	403.9	TC	3500	3600	325.2	403.9	30.0	60.0	0.85	20.0		3
1980	871.3	TC	2400	3600	583.7	871.3	30.0	75.0	0.85	18.0	1,540.2	4
1949	69	TC	850	3600	60	69	0.5	15.0	0.85	14.4		5
1949	69	TC	850	3600	60	69	0.5	15.0	0.85	14.4		6
1949	69	TC	850	3600	60	69	0.5	15.0	0.85	14.4		7
1956	156.3	TC	2000	3600	125	156.3	0.5	30.0	0.85	18.0		8
1957	156.3	TC	2000	3600	125	156.3	0.5	30.0	0.85	18.0	519.6	9
1959	272	CC	2400	3600	108.8	136	25.0	45.0	0.85	16.0		10
1961	272	CC	2400	3600	108.8	136	25.0	45.0	0.85	16.0		11
1975	692.5	TC	1800	3600	387.8	692.5	15.0	60.0	0.85	26.0		12
1977	709.8	TC	1800	3600	518	709.8	45.0	75.0	0.85	26.0	1,946.3	13
1955	156.3	TC	2000	3600	125	156.3	0.5	30.0	0.85	18.0		14
1958	156.3	TC	2000	3600	125	156.3	0.5	30.0	0.85	18.0	312.6	15
1952	106.3	TC	1450	3600	85	106.3	0.5	30.0	0.85	14.4		16
1952	106.3	TC	1450	3600	85	106.3	0.5	30.0	0.85	14.4		17
1953	132.8	TC	1450	3600	106.3	132.8	0.5	30.0	0.85	15.5	345.5	18

+ J H Campbell - Shaft connected boiler feed pumps - 4,320 hp per pump - one each turbine.

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STEAM-ELECTRIC GENERATING PLANTS (Continued)

- (1) Respondent, Michigan Public Power Agency and Wolverine Power Supply Cooperative, nonassociated companies, are co-owners, as tenants in common, of the J H Campbell No 3 unit with Respondent having a 93.31% undivided interest, Michigan Public Power Agency a 4.80% undivided interest, Wolverine Power Supply Cooperative a 1.89% undivided interest. Respondent is operator of the plant and is responsible for operation and maintenance. Respondent and the other owners are entitled to the generating capability and energy output of the unit in the percentages indicated above. Respondent and Michigan Public Power Agency also are co-owners, as tenants in common, of substation and certain transmission facilities included in the project. Respondent and Wolverine Power Supply Cooperative also are co-owners, as tenants in common, of certain transmission facilities included in the project.

Operation, maintenance and other expenses are shared by Respondent and other owners according to contractual arrangements.

Expense accounts affected are steam-electric power generation operation and maintenance accounts, transmission operation and maintenance accounts, certain administrative and general operation accounts and general tax accounts.

- (2) B.C. Cobb units 1-3 are name plate rated at 69 mw each. With 3 units running, the combined plant output is common header limited to 183 mw.

HYDROELECTRIC GENERATING PLANTS

1. Report on this page Hydro plants of 10,000 Kw (name plate rating) or more of installed capacity.
2. Report the information called for concerning generating plants and equipment at year end. Show associated prime movers and generators on the same line.
3. Exclude from this schedule, plant, the book cost of which is included in Account 121, *Nonutility Property*.
4. Designate any plant or portion thereof for which

the responsibility is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating plant, other than a leased plant, or portion thereof, for which the respondent is not the sole owner but which respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars

Line No.	Name of Plant	Location	Name of Stream	Water Wheels (In column (e), indicate whether horizontal or vertical. Also indicate type of runner - Francis (F), propeller (FP), automatically adjustable propeller (AP), impulse (I). Designate reversible type units by appropriate footnote)			
				Attended or Unattended	Type of Unit	Year Installed	Gross Static Head With Pond Full
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Hardy	Newaygo County, Big Prairie Township	Muskegon	Attended*	Vert F	1931	99.5'
2					Vert F	1931	99.5'
3					Vert F	1931	99.5'
4	Hodenpyl	Wexford County, Springville Township	Manistee	Attended*	Vert F	1925	67.5'
5					Vert F	1925	67.5'
6	Tippy	Manistee County, Wellston	Manistee	Attended*	Vert F	1918	56.0'
7					Vert F	1918	56.0'
8					Vert F	1918	56.0'
9							
10							
11							
12							
13							
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37							
38							
39							
40		* Part-time attendance					

HYDROELECTRIC GENERATING PLANTS (Continued)

(details) as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
5. Designate any plant or portion thereof leased to another company, and give name of lessee, date and

term of lease and annual rent, and how determined. Specify whether lessee is an associated company.
6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year, explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

Water Wheels (Continued)			Generators						Total Installed Generating Capacity (Name Plate Ratings) (In megawatts) (q)	Line No.
			Year Installed	Voltage	Phase	Frequency or d.c.	Nameplate Rating of Unit (In megawatts) (o)	No. of Units in Plant (p)		
Design Head	RPM	Maximum Hp. Capacity of Unit at Design Head								
(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	
99'	163.6	14,800	1931	7.5	3	60	10	1	30	1
99'	163.6	14,800	1931	7.5	3	60	10	1		2
99'	163.6	14,800	1931	7.5	3	60	10	1		3
										4
62'	120	12,000	1925	7.5	3	60	9.0	1	18	5
62'	120	12,000	1925	7.5	3	60	9.0	1		6
										7
57.5'	109.1	10,000	1918	7.5	3	60	6.7	1	20	8
57.5'	109.1	10,000	1918	7.5	3	60	6.7	1		9
57.5'	109.1	10,000	1918	7.5	3	60	6.7	1		10
										11
										12
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PUMPED STORAGE GENERATING PLANTS

1. Include in this schedule pumped storage plants of 10,000 Kw (name-plate rating) or more of installed capacity.
2. Report the information called for concerning generating plants and equipment at year end. Show associated prime movers and generators on the same line.

3. Exclude from this schedule the book cost of plant included in Account 121, *Nonutility Property*.
4. Designate any plant or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any

Line No.	Name of Plant	Location	Name of Stream	WATER WHEELS OF HYDRAULIC TURBINES/PUMPS (In column (e), indicate whether horizontal or vertical or inclined. Also indicate type of runner - Francis (F), fixed propeller (FP), automatically adjustable propeller (AP), impulse (I), or Tublar (T). Designate reversible type units by appropriate footnote)				
				Attended or Unattended	Type of Unit	Year Installed	Gross Static Head With Pond Full	Design Head
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Ludington (1)	Ludington	Lake Michigan	Attended	Vert F (2)	1973	363.7' (3)	353'
2					Vert F	1973	363.7'	353'
3					Vert F	1973	363.7'	353'
4					Vert F	1973	363.7'	353'
5					Vert F	1973	363.7'	353'
6					Vert F	1973	363.7'	353'
7								
8								
9								
10								
11								
12	(1) Respondent and the Detroit Edison Company, a nonassociated company, are							
13	co-owners, as tenants in common, of the Ludington Pumped Storage Plant							
14	with Respondent having a 51% undivided interest and Detroit Edison a							
15	49% undivided interest. A license for Project No 2680 has been issued							
16	by the Federal Power Commission to the two companies as joint licensees.							
17	The project includes the pumped storage plant, substation and certain							
18	transmission facilities. Respondent is operator of the plant and is							
19	responsible for operation and maintenance, except that operating agree-							
20	ment specifies that mutual agreement be sought on major operation and							
21	maintenance matters pertaining to the plant. Respondent and Detroit							
22	Edison are entitled to 51% and 49%, respectively, of the generating							
23	capability and energy output of the plant with pumping energy being							
24	supplied in the same percentages.							
25								
26	Operation, maintenance and other expenses of the project are shared by							
27	Respondent and Detroit Edison, 51% and 49%, respectively.							
28								
29	Expense accounts affected are hydraulic power generation operation and							
30	maintenance accounts, transmission operation and maintenance accounts,							
31	certain administrative and general operation accounts and general tax							
32	accounts.							
33								
34	(2) All units are reversible pump/turbines.							
35								
36	(3) Change in Gross Static Head with pond full due to increase in average lake level for 2003.							
37								

PUMPED STORAGE GENERATING PLANTS (Continued)									
generating plant, other than a leased plant, or portion thereof, for which the respondent shares in the operation of, furnish a concise statement explaining the arrangement and giving particulars as to such matters as percent ownership by respondent, name of co-owner,						basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.			
SEPARATE MOTOR-DRIVEN PUMPS								Line No	
RPM (Designate whether turbine or pump) (i)	Maximum Hp Capacity of Unit at Design Head (j)	Year Installed (k)	Type (l)	RPM (m)	Phase (n)	Frequency or d.c. (o)	NAME PLATE RATING IN Hp (p)		MVa (q)
	None								1
									2
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PUMPED STORAGE GENERATING PLANTS (Continued)							
5. Designate any plant or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.				6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year, explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.			
Line No.	GENERATORS OR GENERATOR/MOTORS (In Column (v), designate whether generator or motor)						Total Installed Generating Capacity (Nameplate Ratings) (In megawatts) (x)
	Year Installed (r)	Voltage (s)	Phase (t)	Frequency or d.c. (u)	Nameplate Rating of Unit (In megawatts) (Designate whether MVa, MW, or Hp; indicate power factor) (v)	Number of Units in Plant (w)	
1	1973	20.0	3	60 Hz	Generator	6	1,978.8
2					329.8 MW		
3					0.85 Power Factor		
4							
5							
6							
7							
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INTERNAL-COMBUSTION ENGINE AND GAS-TURBINE GENERATING PLANTS

1. Include on this page internal-combustion engine and gas-turbine plants of 10,000 kilowatts and more.
 2. Report the information called for concerning plants and equipment at end of year. Show associated prime movers and generators on the same line.
 3. Exclude from this page, plant, the book cost of which is included in Account 121, *Nonutility Property*.

4. Designate any plants or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating plant other than a leased plant, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the

Line No.	Name of Plant	Location of Plant	Prime Movers (In column (e), indicate basic cycle for gas-turbine as open or closed; indicate basic cycle for internal-combustion as 2 or 4)				
			Internal-Combustion or Gas-Turbine (c)	Year Installed (d)	Cycle (e)	Belted or Direct Connected (f)	Rated Hp of Unit (g)
1	Gaylord	Gaylord	Gas-Turbine	1966	Open	Direct Connected	-
2			Gas-Turbine	1968	Open	Direct Connected	-
3	Campbell	West Olive	Gas-Turbine	1968	Open	Direct Connected	-
4							
5	Morrow	Comstock	Gas-Turbine	1968	Open	Direct Connected	-
6			Gas-Turbine	1969	Open	Direct Connected	-
7	Weadock	Essexville	Gas-Turbine	1968	Open	Direct Connected	-
8							
9	Whiting	Near Erie	Gas-Turbine	1968	Open	Direct Connected	-
10							
11	Straits	Mackinaw City	Gas-Turbine	1969	Open	Direct Connected	-
12							
13	Thetford	North of Flint	Gas-Turbine	1970	Open	Direct Connected	-
14			Gas-Turbine	1971	Open	Direct Connected	-
15							
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INTERNAL-COMBUSTION ENGINE AND GAS-TURBINE GENERATING PLANTS (Continued)

operation of, furnish a succinct statement explaining the arrangement and giving particulars (details) as to such matters as percent of ownership by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenue are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
5. Designate any plant or portion thereof leased to another company and give name of lessee, date and

term of lease and annual rent and how determined. Specify whether lessee is an associated company.
6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year, explain whether it has been retired in the books of accounts or what disposition of the plant or equipment and its book cost are contemplated.

GENERATORS						Total Installed Generating Capacity (Nameplate Ratings) (In megawatts) (n)	Line No.
Year Installed (h)	Voltage (i)	Phase (j)	Frequency or d.c. (k)	Nameplate Rating of Unit (In megawatts) (l)	No. of Units in Plant (m)		
1966	13.8	3	60	16.0	4	82.6	1
1968	13.8	3	60	18.6	1		2
							3
1968	13.8	3	60	18.6	1	18.6	4
							5
1968	13.8	3	60	18.0	1	36.0	6
1969	13.8	3	60	18.0	1		7
							8
1968	13.8	3	60	18.6	1	18.6	9
							10
1968	13.8	3	60	18.6	1	18.6	11
							12
1969	13.8	3	60	21.3	1	21.3	13
							14
1970	13.8	3	60	33.6	4	222.2	15
1971	13.8	3	60	17.6	5		16
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Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve only one industrial or street railway customer should not be listed below.
- Substations with capacities of Less than 10 MVA except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	ABBE - OSCODA CO	Distrib Unattended	138.00	24.90	
2	ABERDEEN - GRAND TWP	Distrib Unattended	46.00	12.47	
3	AGNEW - GRAND HAVEN TWP	Distrib Unattended	46.00	8.32	
4	ALAMO - ALAMO TWP	Distrib Unattended	46.00	24.90	
5	ALBER - BATTLE CREEK TWP	Distrib Unattended	46.00	8.32	
6	ALCONA DAM - CURTIS TWP	Distrib Unattended	138.00	4.80	
7			24.90	4.80	
8	ALDER CREEK - NEWTON TWP	Distrib Unattended	138.00	24.90	
9	ALDRICH - FLINT TWP	Distrib Unattended	46.00	8.32	
10	ALGER - MOFFITT TWP	Distrib Unattended	138.00	24.90	
11	ALGOMA - ALGOMA	Trans Unattended	138.00	46.00	7.60
12	ALMA - GREENDALE TWP	Trans Unattended	138.00	46.00	10.50
13	ALMEDA - FRASER	Trans Unattended	138.00	46.00	7.59
14	ALPINE - ALPINE TWP	Distrib Unattended	138.00	12.47	
15	ALTO - LOWELL TWP	Distrib Unattended	46.00	8.32	
16	AMBER - AMBER	Trans Unattended	138.00	46.00	10.50
17	AMPERSEE - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
18	APPLE - EGELSTON TWP	Distrib Unattended	46.00	12.47	
19			46.00	8.32	
20	APPLETON - BIG RAPIDS TWP	Distrib Unattended	46.00	12.47	
21	ASHMAN CIRCLE - MIDLAND TWP	Distrib Unattended	46.00	8.32	
22	ASYLUM - FLINT CITY	Distrib Unattended	46.00	13.80	
23	ATHERTON - BURTON TWP	Distrib Unattended	46.00	8.32	
24	ATLAS - ATLAS TWP	Distrib Unattended	46.00	8.32	
25	ATWATER - TEXAS TWP	Distrib Unattended	46.00	24.90	
26			46.00	8.32	
27	AUBURN - WILLIAMS TWP	Distrib Unattended	46.00	8.32	
28	AUSTIN - PORTAGE TWP	Distrib Unattended	46.00	8.32	
29	BACKUS - BACKUS TWP	Distrib Unattended	138.00	24.90	
30	BAGLEY - BAGLEY TWP	Distrib Unattended	138.00	24.90	
31	BALLENGER - FLINT TWP	Distrib Unattended	46.00	8.32	
32	BARD ROAD - BARD ROAD	Trans Unattended	138.00	46.00	7.50
33	BARNHARD - SAGINAW TWP	Distrib Unattended	46.00	8.32	
34	BARRY - HASTINGS	Trans Unattended	138.00	46.00	10.50
35			135.00	46.00	
36	BASS CREEK - ROBINSON	Trans Unattended	138.00	46.00	7.50
37	BATAVIA - BATAVIA	Trans Unattended	138.00	46.00	10.50
38	BATES - WHITE WATER TWP	Distrib Unattended	46.00	12.47	
39	BATTEESE - HENRIETTA TWP	Distrib Unattended	46.00	24.90	
40	BAUM STREET - SAGINAW TWP	Distrib Unattended	46.00	8.32	

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
13	1					1
13	1					2
13	1					3
13	1					4
13	2					5
13	4					6
						7
10	1					8
13	1					9
13	1					10
30	1					11
38	1	1				12
30	1					13
13	1					14
13	1					15
100	2					16
10	1					17
16	2					18
						19
13	1					20
13	2					21
20	1					22
13	1					23
13	1					24
25	2					25
						26
10	1					27
13	1					28
10	1					29
25	2					30
23	2					31
30	1					32
25	2					33
88	2					34
						35
30	1					36
40	1					37
14	1					38
10	1					39
13	2					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve only one industrial or street railway customer should not be listed below.
- Substations with capacities of Less than 10 MVa except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVa)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	BAVARIAN - FRANKENMUTH TWP	Distrib Unattended	46.00	8.32	
2	BAY ROAD - FRANKENLUST TWP	Distrib Unattended	138.00	24.90	
3	BEALS ROAD - WYOMING TWP	Trans Unattended	138.00	46.00	15.00
4			138.00	12.47	
5	BEAVER CREEK - BEAVER CREEK	Trans Unattended	138.00	46.00	
6	BECKER - EGELSTON TWP	Distrib Unattended	138.00	12.47	
7	BEECHER - MADISON TWP	Trans Unattended	138.00	46.00	15.00
8			46.00	12.47	
9			46.00	8.32	
10	BEERS - GENESSEE COUNTY	Distrib Unattended	46.00	8.32	
11	BEGOLE - PINE RIVER	Trans Unattended	138.00	46.00	10.50
12	BELDING - EUREKA TWP	Distrib Unattended	46.00	8.32	
13	BELL ROAD - TAYMOUTH TWP	Distrib Unattended	138.00	24.90	
14	BELLA VISTA - ROCKFORD	Distrib Unattended	46.00	8.32	
15	BELSAY - BURTON TWP	Distrib Unattended	46.00	8.32	
16	BENNETT - MERIDIAN TWP	Distrib Unattended	46.00	8.32	
17	BENNINGTON - BENNINGTON TWP	Distrib Unattended	138.00	24.90	
18	BEVERIDGE - FLINT TWP	Trans Unattended	138.00	46.00	15.00
19	BIG RAPIDS - BIG RAPIDS TWP	Distrib Unattended	46.00	7.56	
20	BIL MAR - OLIVE TWP	Distrib Unattended	138.00	8.32	
21	BINGHAM - BINGHAM	Trans Unattended	138.00	46.00	7.50
22	BISHOP - FLINT	Distrib Unattended	46.00	8.32	
23	BLACK RIVER - HOLLAND TWP	Trans Unattended	138.00	46.00	
24			138.00	12.47	
25	BLACKMAN - BLACKMAN TWP	Distrib Unattended	138.00	24.90	
26	BLACKSTONE STREET - BLACKMAN	Trans Unattended	138.00	46.00	10.00
27	BLINTON - GRNAD BLANC TWP	Distrib Unattended	138.00	24.90	
28	BLISSFIELD - BLISSFIELD TWP	Distrib Unattended	46.00	12.47	
29	BLUE WATER - BINGHAM TWP	Distrib Unattended	138.00	24.90	
30	BLUEGRASS - CHIPPEWA TWP	Distrib Unattended	138.00	8.32	
31	BOARDMAN - GARFIELD	Trans Unattended	138.00	46.00	7.60
32	BOMAN - FLUSHING TWP	Distrib Unattended	46.00	8.32	
33	BOON ROAD - HARING TWP	Distrib Unattended	46.00	8.32	
34	BOSTON SQUARE - PARIS TWP	Distrib Unattended	46.00	12.47	
35	BOWEN - PARIS TWP	Distrib Unattended	46.00	12.47	
36	BREEDSVILLE - COLUMBIA TWP	Distrib Unattended	46.00	24.90	
37	BRETON - PARIS TWP	Distrib Unattended	46.00	12.47	
38	BRICKER - OTISCO TWP	Distrib Unattended	138.00	24.90	
39	BRICKYARD - HOLTON TWP	Distrib Unattended	138.00	46.00	
40	BRIDGE STREET - JACKSON	Distrib Unattended	46.00	8.32	

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
13	1					1
60	2					2
260	5					3
						4
30	1					5
13	1					6
185	4					7
						8
						9
13	1					10
38	1					11
13	1					12
13	1					13
13	1					14
13	1					15
12	1					16
13	1					17
200	2					18
13	1					19
20	1					20
40	1					21
14	1					22
80	3					23
						24
20	1					25
136	5	1				26
48	2					27
10	1					28
10	1					29
13	1					30
88	2					31
13	1					32
13	1					33
25	2					34
21	3					35
13	1					36
80	2					37
14	1					38
50	1					39
13	2					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve only one industrial or street railway customer should not be listed below.
- Substations with capacities of Less than 10 MVA except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	BRIDGEPORT - BRIDGEPORT TWP	Distrib Unattended	46.00	8.32	
2	BRISTOL - SAGINAW TWP	Distrib Unattended	46.00	8.32	
3	BROADMOOR - PARIS TWP	Distrib Unattended	138.00	46.00	15.00
4			138.00	13.80	
5	BROADWAY - FRIUTPORT TWP	Distrib Unattended	46.00	12.47	
6	BROUGHWELL - RIVES TWP	Distrib Unattended	138.00	24.90	
7	BUCK CREEK - BUCK CREEK	Trans Unattended	138.00	46.00	15.20
8	BULLOCK - MIDLAND TWP	Trans Unattended	138.00	46.00	10.50
9			46.00	8.32	
10	BURLINGAME - WYOMING TWP	Distrib Unattended	46.00	12.47	
11	BURROWS - SAGINAW TWP	Distrib Unattended	46.00	8.32	
12	BURTCH ROAD - GRASS LAKE TWP	Distrib Unattended	46.00	24.90	
13	BYRON CENTER - BYRON TWP	Distrib Unattended	46.00	12.47	
14			46.00	8.32	
15	CADILLAC - CLAM LAKE TWP	Distrib Unattended	46.00	24.90	
16			46.00	8.32	
17	CADMUS - MADISON TWP	Distrib Unattended	46.00	12.47	
18	CALHOUN - CALHOUN	Trans Unattended	138.00	46.00	7.59
19	CALKINS - FLINT TWP	Distrib Unattended	46.00	8.32	
20	CALVIN - PARIS TWP	Distrib Unattended	46.00	12.47	
21	CAMELOT LAKE - UNION TWP	Distrib Unattended	138.00	24.90	
22	CANNON - CANNON	Trans Unattended	138.00	46.00	10.50
23	CARROLL - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
24	CARROLLTON - BUENA VISTA TWP	Distrib Unattended	23.00	8.32	
25	CARY ROAD - COLUMBIA TWP	Distrib Unattended	46.00	24.90	
26	CASCADE - CASCADE TWP	Distrib Unattended	46.00	8.32	
27	CASINO - MT PLEASANT	Distrib Unattended	46.00	8.32	
28	CASS ROAD - GARFIELD TWP	Distrib Unattended	46.00	12.47	
29	CEDAR SPRINGS - SOLON TWP	Distrib Unattended	138.00	24.90	
30	CEMENT CITY - COLUMBIA TWP	Distrib Unattended	138.00	46.00	10.50
31	CENTER ROAD - BURTON TWP	Distrib Unattended	46.00	8.32	
32	CENTREVILLE - NOTTAWA TWP	Distrib Unattended	46.00	24.90	
33	CHAFFEE - GRAND RAPIDS TWP	Distrib Unattended	46.00	12.47	
34	CHARLOTTE - EATON TWP	Distrib Unattended	46.00	8.32	
35	CHASE - CHASE	Trans Unattended	138.00	46.00	
36	CHAUNCEY - SHERIDAN TWP	Distrib Unattended	46.00	8.32	
37	CHEBOYGAN - BENTON TWP	Distrib Unattended	46.00	12.47	
38	CHESANING - CHESANING TWP	Distrib Unattended	46.00	8.32	
39	CHEYENNE - SAGINAW TWP	Distrib Unattended	46.00	8.32	
40	CHICAGO - GEORGETOWN TWP	Distrib Unattended	138.00	12.47	

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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
13	1					1
13	1					2
225	3					3
						4
25	2					5
10	1					6
100	1					7
83	3					8
						9
26	3					10
19	2					11
10	1					12
25	2					13
						14
19	3					15
						16
13	1					17
30	1					18
25	2					19
40	2					20
13	1					21
30	1					22
13	1					23
13	3					24
14	1					25
27	2					26
13	1					27
20	1					28
20	1					29
40	1					30
10	1					31
13	1					32
20	1					33
14	2					34
18	3					35
13	1					36
15	2					37
13	1					38
25	2					39
12	1					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

1. Report below the information called for concerning substations of the respondent as of the end of the year.
2. Substations which serve only one industrial or street railway customer should not be listed below.
3. Substations with capacities of Less than 10 MVA except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	CLARE - GRANT TWP	Distrib Unattended	138.00	24.90	
2	CLAREMONT - BRIDGEPORT	Trans Unattended	138.00	46.00	15.00
3	CLAY - GRAND RAPIDS TWP	Distrib Unattended	46.00	7.55	
4	CLEARWATER - CLEARWATER	Trans Unattended	138.00	46.00	
5	CLEVELAND - SPRING LAKE	Trans Unattended	138.00	46.00	15.20
6	CLIO - VIENNA TWP	Distrib Unattended	46.00	8.32	
7	CLUB - DALTON TWP	Distrib Unattended	138.00	12.47	
8	CLYDE ROAD - IONIA TWP	Distrib Unattended	46.00	24.90	
9	COBB B C PLANT - MUSKEGON	Trans Attended	138.00	17.50	
10			138.00	46.00	4.50
11	COCHRAN - EATON TWP	Distrib Unattended	138.00	24.90	
12	COLE CREEK - FLUSHING	Trans Unattended	138.00	46.00	7.60
13	COLEMAN - WARREN TWP	Distrib Unattended	46.00	8.32	
14	COLLEGE PARK - MADISON TWP	Distrib Unattended	46.00	12.47	
15	COLONY FARM - KALAMAZOO	Distrib Unattended	138.00	24.90	
16	COMSTOCK - COMSTOCK TWP	Distrib Unattended	46.00	8.32	
17	CONVIS - CONVIS TWP	Distrib Unattended	138.00	24.90	
18	CONWAY - LITTLE TRAVER TWP	Distrib Unattended	46.00	13.80	
19	COOKE DAM - OSCODA TWP	Distrib Unattended	46.00	2.40	
20			5.00	2.40	
21	COOLEY - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
22	COOPERSVILLE - POLKTON TWP	Distrib Unattended	46.00	8.32	
23	CORNELL - CALEDONIA	Trans Unattended	138.00	46.00	
24	CORUNNA - CALEDONIA TWP	Distrib Unattended	46.00	8.32	
25	COTTAGE GROVE - KAWKAWLIN TWP	Distrib Unattended	138.00	24.90	
26	COURT - BURTON TWP	Distrib Unattended	46.00	8.32	
27	COWAN LAKE - CANNON TWP	Distrib Unattended	138.00	24.90	
28	CRAWFORD - UNION TWP	Distrib Unattended	46.00	8.32	
29	CROTON - CROTON TWP	Trans Unattended	138.00	46.00	10.50
30	CURTIS - WARREN TWP	Distrib Unattended	46.00	8.32	
31	CUTLERVILLE - BYRON TWP	Distrib Unattended	46.00	12.47	
32	DAVENPORT - SAGINAW TWP	Distrib Unattended	46.00	8.32	
33	DAVISON - DAVISON TWP	Distrib Unattended	46.00	8.32	
34	DEAN ROAD - TYRONE TWP	Distrib Unattended	138.00	24.90	
35	DEJA - DAY	Trans Unattended	140.00	22.00	10.00
36	DELANEY - BURTON	Trans Unattended	138.00	46.00	15.20
37	DELHI - LANSING	Trans Unattended	138.00	46.00	10.00
38	DEWEY - WALKER TWP	Distrib Unattended	46.00	12.47	
39	DEWITT - DEWITT TWP	Distrib Unattended	46.00	8.32	
40	DIMONDALE - WINDSOR TWP	Distrib Unattended	46.00	8.32	

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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
14	1					1
200	2					2
20	1					3
30	1					4
60	1					5
19	2					6
12	1					7
13	1					8
170	1					9
200	2					10
13	1					11
30	1					12
13	1					13
20	1					14
13	1					15
14	2					16
13	1					17
13	1					18
13	4					19
						20
						21
22	3					22
13	1					23
100	1					24
13	1					25
10	1					26
20	1					27
13	1					28
13	1					29
30	1					30
13	1					31
23	2					32
13	1					33
25	2					34
30	1					35
40	1					36
100	1					37
80	2					38
40	2					39
25	2					40
10	1					

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SUBSTATIONS

1. Report below the information called for concerning substations of the respondent as of the end of the year.
2. Substations which serve only one industrial or street railway customer should not be listed below.
3. Substations with capacities of Less than 10 MVA except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	DIXIE - MT MORRIS TWP	Distrib Unattended	46.00	8.32	
2	DOEHLER JARVIS - PARIS TWP	Distrib Unattended	46.00	12.47	
3	DORR CORNERS - DORR TWP	Distrib Unattended	138.00	8.32	
4	DORT - GENESEE	Trans Unattended	140.00	46.00	21.00
5			138.00	46.00	
6	DOWLING - HUDSON	Trans Unattended	138.00	46.00	
7	DRAKE ROAD - OSHTIMO TWP	Distrib Unattended	138.00	8.32	
8	DUFFIELD - CLAYTON TWP	Distrib Unattended	138.00	24.90	
9	DURAND - VERNON TWP	Distrib Unattended	46.00	8.32	
10	DUTTON - GAINES TWP	Distrib Unattended	138.00	12.47	
11	EAST BAY - EAST BAY TWP	Distrib Unattended	46.00	12.47	
12	EAST GENESEE AVENUE - BUENA VISTA TWP	Distrib Unattended	46.00	8.32	
13	EAST JORDAN - SOUTH ARM TWP	Distrib Unattended	46.00	12.47	
14	EAST MUSKEGON - MUSKEGON TWP	Distrib Unattended	46.00	12.47	
15	EAST TAWAS - BALDWIN TWP	Distrib Unattended	138.00	24.90	
16	EASTON - EASTON TWP	Distrib Unattended	138.00	24.90	
17	EASTWOOD - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
18	EDENVILLE DAM - EDENVILLE	Distrib Unattended	138.00	46.00	5.20
19			46.00	2.50	
20	ELLSWORTH - WALKER TWP	Distrib Unattended	46.00	12.47	
21	ELM STREET - EMMET TWP	Distrib Unattended	138.00	46.00	10.50
22			138.00	8.32	
23			46.00	8.32	
24	ELMWOOD - ELMWOOD	Trans Unattended	138.00	46.00	7.50
25	EMERALD - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
26	EMMET - BEAR CREEK	Trans Unattended	138.00	46.00	7.50
27	ENGLISHVILLE - ALGOMA TWP	Distrib Unattended	138.00	24.90	
28	ESSEXVILLE - BANGOR TWP	Distrib Unattended	46.00	8.32	
29	EUREKA - EUREKA	Trans Unattended	138.00	46.00	
30	EVANSTON - EGELSTON TWP	Distrib Unattended	46.00	12.47	
31	FAIRBANKS - WALKER TWP	Distrib Unattended	46.00	12.47	
32	FARR ROAD - MAINSTEE	Trans Unattended	138.00	46.00	
33	FELCH ROAD - GARFIELD	Trans Unattended	138.00	46.00	10.50
34	FENNVILLE - CLYDE TWP	Distrib Unattended	46.00	8.32	
35	FENTON - FENTON TWP	Distrib Unattended	46.00	8.32	
36	FERGUSON - SUMMIT TWP	Distrib Unattended	46.00	8.32	
37	FILLMORE - BLENDON TWP	Distrib Unattended	138.00	12.47	
38	FLUSHING - FLUSHING TWP	Distrib Unattended	46.00	8.32	
39	FOOTE HYDRO - OSCODA TWP	Distrib Unattended	46.00	4.80	
40			5.00	4.80	

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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

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Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
13	1					1
25	2					2
13	1					3
200	2					4
						5
30	1					6
40	2					7
13	1					8
10	1					9
32	2					10
13	1					11
13	2					12
13	1					13
13	1					14
13	1					15
20	1					16
13	1					17
21	4					18
						19
60	3					20
98	3					21
						22
						23
30	1					24
13	1					25
30	1					26
13	1					27
10	1					28
30	1					29
25	2					30
40	2					31
30	1					32
38	1					33
13	1					34
14	1					35
13	1					36
10	1					37
13	1					38
11	5					39
						40

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SUBSTATIONS

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Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVa)		
			Primary (c)	Secondary (d)	Tertiary (e)
1			5.00	2.40	
2	FORDYCE - UNION TWP	Distrib Unattended	46.00	8.32	
3	FORT CUSTER - BEDFORD TWP	Distrib Unattended	138.00	24.90	
4	FOUNTAIN - BATTLE CREEK TWP	Distrib Unattended	46.00	13.80	
5			46.00	8.32	
6			46.00	4.36	
7	FOUR MILE - WALKER TWP	Trans Unattended	138.00	46.00	15.00
8			138.00	12.47	15.00
9	FOURTEENTH STREET - BURTON TWP	Distrib Unattended	46.00	8.32	
10	FRANCIS ROAD - FLUSHING TWP	Distrib Unattended	46.00	8.32	
11	FRANKENMUTH - FRANKENMUTH TWP	Distrib Unattended	46.00	8.32	
12	FREELAND - TITABAWASSEE TWP	Distrib Unattended	46.00	8.32	
13	FREMONT - SHERIDAN TWP	Distrib Unattended	46.00	8.32	
14	FULTON - ADA TWP	Distrib Unattended	46.00	12.47	
15	GALESBURG - CHARLESTON TWP	Distrib Unattended	46.00	8.32	
16	GAYLORD GEN STATION - LIVINGSTON	Trans Unattended	138.00	46.00	5.25
17	GENESEEVILLE - GENESEE TWP	Distrib Unattended	46.00	8.32	
18	GETTY - MUSKEGON TWP	Distrib Unattended	46.00	12.47	
19	GILKEY CREEK - DAVISON TWP	Distrib Unattended	46.00	8.32	
20	GILSON - RICHLAND TWP	Distrib Unattended	46.00	24.90	
21	GLADWIN - GROUT TWP	Distrib Unattended	46.00	8.32	
22	GLENER - TITABAWASSEE	Trans Unattended	138.00	46.00	7.60
23	GLEN LAKE - GLEN ARBOR TWP	Distrib Unattended	46.00	12.47	
24	GLENDALE - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
25	GOGUAC - BATTLE CREEK TWP	Distrib Unattended	46.00	8.32	
26	GOLDEN - MIDLAND TWP	Distrib Unattended	46.00	8.32	
27	GOODALE - BEDFORD TWP	Distrib Unattended	46.00	8.32	
28	GRAND BLANC - GRAND BLANC TWP	Distrib Unattended	46.00	8.32	
29	GRAND LEDGE - ONEIDA TWP	Distrib Unattended	46.00	8.32	
30	GRAND RIVER - MERIDIAN TWP	Distrib Unattended	46.00	8.32	
31	GRAND VALLEY - TALLMADGE TWP	Distrib Unattended	46.00	12.47	
32	GRANDVILLE - WYOMING TWP	Distrib Unattended	46.00	12.47	
33	GRAYLING - GRAYLING TWP	Distrib Unattended	46.00	8.32	
34	GREENSPIRE - PORTAGE TWP	Distrib Unattended	46.00	8.32	
35	GREENVILLE - EUREKA TWP	Distrib Unattended	46.00	8.32	
36	GREENWOOD - HORTON TWP	Distrib Unattended	138.00	24.90	
37	GRODI ROAD - ERIE TWP	Distrib Unattended	138.00	46.00	
38	GROUT - GROUT	Trans Unattended	138.00	46.00	
39	GROVER - ARCADIA TWP	Distrib Unattended	46.00	8.32	
40	HACKETT - TITABAWASSEE TWP	Distrib Unattended	138.00	8.32	

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
						1
13	1					2
60	2					3
35	3					4
						5
						6
240	4					7
						8
25	2					9
10	1					10
13	1					11
10	1					12
27	3					13
23	2					14
10	1					15
15	1					16
13	1					17
10	1					18
13	1					19
10	1					20
13	2					21
50	1					22
12	2					23
13	1					24
13	1					25
13	1					26
13	1					27
19	2					28
20	1					29
23	2					30
13	1					31
25	2					32
12	2					33
13	1					34
13	1					35
13	1					36
30	1					37
30	1					38
13	1					39
13	1					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve only one industrial or street railway customer should not be listed below.
- Substations with capacities of Less than 10 MVA except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	HAGADORN - MERIDIAN TWP	Distrib Unattended	138.00	8.32	
2	HAGER PARK - GEORGETOWN TWP	Distrib Unattended	138.00	12.47	
3	HALSEY - HOLLY TWP	Trans Unattended	138.00	46.00	
4	HAMILTON - HEATH TWP	Distrib Unattended	46.00	8.32	
5	HAMMOND RD - GARFIELD TWP	Distrib Unattended	46.00	12.47	
6	HANSEN - WYOMING TWP	Distrib Unattended	46.00	12.47	
7	HARDY DAM - HARDY DAM	Trans Unattended	138.00	7.50	
8	HARING - BOON TWP	Distrib Unattended	138.00	8.32	
9	HARLEM - OLIVE TWP	Distrib Unattended	46.00	8.32	
10	HARPER ROAD - DELHI TWP	Distrib Unattended	46.00	24.90	
11	HARRISON - HAYES TWP	Distrib Unattended	46.00	8.32	
12	HARVEY STREET - GRAND RAPIDS TWP	Distrib Unattended	46.00	12.47	
13	HASKELITE - WALKER TWP	Distrib Unattended	46.00	12.47	
14	HASTINGS - HASTINGS TWP	Distrib Unattended	46.00	8.32	
15	HAYES STREET - GRAND HAVEN TWP	Distrib Unattended	46.00	8.32	
16	HAZELWOOD - GUN PLAIN	Trans Unattended	138.00	46.00	15.20
17	HEMLOCK - RICHLAND TWP	Distrib Unattended	46.00	8.32	
18	HEMPHILL - BURTON TWP	Trans Unattended	140.00	46.00	
19	HENDERSHOT - MACON TWP	Distrib Unattended	138.00	12.47	
20	HICKORY - SPRING LAKE TWP	Distrib Unattended	46.00	12.47	
21	HIGGINS - HIGGINS	Trans Unattended	138.00	46.00	
22	HODENPYL DAM - SPRINGVILLE TWP	Distrib Unattended	138.00	46.00	10.50
23	HOGAN - ARGENTINE TWP	Distrib Unattended	46.00	8.32	
24	HOGSBACK - DELHI TWP	Distrib Unattended	46.00	8.32	
25	HOLTON - HOLTON TWP	Distrib Unattended	46.00	24.90	
26	HOMESTEAD - JOYFIELD TWP	Distrib Unattended	46.00	12.47	
27	HOSPITAL - GARFIELD TWP	Distrib Unattended	46.00	12.47	
28	HOTCHKISS - MONITOR TWP	Distrib Unattended	138.00	24.90	
29	HOUGHTON HEIGHTS - ROSCOMMON	Distrib Unattended	46.00	24.90	
30	HUDSON - HUDSON TWP	Distrib Unattended	46.00	8.32	
31	HUDSONVILLE - GEORGETOWN TWP	Distrib Unattended	138.00	12.47	
32	HUGHES ROAD - MARSHALL	Trans Unattended	138.00	46.00	
33	HULL STREET - ALGOMA TWP	Distrib Unattended	138.00	24.90	
34	HUNT ROAD - ADRIAN TWP	Distrib Unattended	46.00	12.47	
35	HURON - MONITOR TWP	Distrib Unattended	46.00	8.32	
36	HYDE PARK - DALTON TWP	Distrib Unattended	46.00	12.47	
37	INGHAM - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
38	IOSCO - OSCODA	Trans Unattended	140.00	46.00	
39			138.00	46.00	
40	IRISH ROAD - DAVISON TWP	Distrib Unattended	46.00	24.90	

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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
16	1					1
20	1					2
60	2					3
13	1					4
13	1					5
13	1					6
40	1					7
20	1					8
12	2					9
13	1					10
13	2					11
50	4					12
25	2					13
20	2					14
13	1					15
200	2					16
10	1					17
160	2					18
10	1					19
13	1					20
41	4					21
30	1					22
13	1					23
25	2					24
13	1					25
13	1					26
13	1					27
13	1					28
13	1					29
13	1					30
10	1					31
20	1					32
50	1					33
13	1					34
13	1					35
10	1					36
13	1					37
19	2					38
60	2					39
13	1					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

1. Report below the information called for concerning substations of the respondent as of the end of the year.
2. Substations which serve only one industrial or street railway customer should not be listed below.
3. Substations with capacities of Less than 10 MVa except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVa)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	IRON STREET - BURTON TWP	Distrib Unattended	46.00	8.32	
2	ISABELLA - UNION TWP	Distrib Unattended	46.00	8.32	
3	ISLAND ROAD - EATON	Trans Unattended	138.00	46.00	10.50
4	ITHACA - NEWARK TWP	Distrib Unattended	46.00	8.32	
5	IVANREST - WYOMING TWP	Distrib Unattended	46.00	12.47	
6	JACKMAN - BEDFORD TWP	Distrib Unattended	46.00	12.47	
7	JAMES SAVAGE - MIDLAND	Distrib Unattended	46.00	8.32	
8	JAMESTOWN - JAMESTOWN TWP	Distrib Unattended	138.00	12.47	
9	JANES - BUENA VISTA TWP	Distrib Unattended	46.00	8.32	
10	JEFFS ROAD - WHITEFORD TWP	Distrib Unattended	46.00	12.47	
11	JUDD ROAD - BURTON TWP	Distrib Unattended	46.00	8.32	
12	KALARAMA - PORTAGE TWP	Distrib Unattended	46.00	8.32	
13	KALKASKA - KALKASKA TWP	Distrib Unattended	46.00	12.47	
14	KEARSLEY - GENESEE TWP	Distrib Unattended	46.00	8.32	
15	KEATING - MUSKEGON TWP	Distrib Unattended	46.00	12.47	
16	KELLOGGSVILLE - WYOMING TWP	Distrib Unattended	46.00	12.47	
17	KENDALL - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
18	KENDRICK - CASCADE TWP	Distrib Unattended	138.00	12.47	
19	KENT AIRPORT - CASCADE TWP	Distrib Unattended	46.00	12.47	
20	KIESEL - BANGOR TWP	Distrib Unattended	46.00	8.32	
21	KILGORE - PORTAGE TWP	Distrib Unattended	46.00	8.32	
22	KINDERHOOK - OVID TWP	Distrib Unattended	46.00	8.32	
23	KINNEY - WALKER TWP	Distrib Unattended	46.00	12.47	
24	KIPP ROAD - VEVAY TWP	Distrib Unattended	138.00	24.90	
25	KNAPP - GRAND RAPIDS	Distrib Unattended	46.00	12.47	
26	KNIGHT - HAMPTON TWP	Distrib Unattended	46.00	8.32	
27	KOCHVILLE - FRANKENLUST TWP	Distrib Unattended	46.00	8.32	
28	KOLASSA - BRONSON TWP	Distrib Unattended	46.00	24.90	
29	KRAFT AVENUE - CASCADE	Distrib Unattended	138.00	12.47	
30	LABARGE - CALEDONIA TWP	Distrib Unattended	46.00	8.32	
31	LAFAYETTE - LAFAYETTE	Trans Unattended	138.00	46.00	15.20
32	LAGRAVE - GRAND RAPIDS TWP	Distrib Unattended	46.00	12.47	
33	LAINSBURG - SCIOTA TWP	Distrib Unattended	46.00	8.32	
34	LAKE CITY - REEDER TWP	Distrib Unattended	46.00	24.90	
35	LAKE LANSING - INGHAM COUNTY	Distrib Unattended	46.00	8.32	
36	LAMBERTVILLE - BEDFORD TWP	Distrib Unattended	46.00	12.47	
37	LAMOREAUX - ALPINE TWP	Distrib Unattended	46.00	12.47	
38	LANDWER - FERRYSBURG	Distrib Unattended	46.00	12.47	
39	LARKIN - MIDLAND TWP	Distrib Unattended	46.00	8.32	
40	LASALLE - LASALLE TWP	Distrib Unattended	46.00	12.47	

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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
23	2					1
25	2					2
60	2					3
13	1					4
25	2					5
25	2					6
12	1					7
20	1					8
13	1					9
13	1					10
25	2					11
13	1					12
10	1					13
15	2					14
25	2					15
25	2					16
13	1					17
40	2					18
25	2					19
13	1					20
20	1					21
10	1					22
10	1					23
30	1					24
20	1					25
13	1					26
13	1					27
10	1					28
100	2					29
14	1					30
80	1					31
40	2					32
10	1					33
14	1					34
13	1					35
13	1					36
13	1					37
13	1					38
25	2					39
13	1					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

1. Report below the information called for concerning substations of the respondent as of the end of the year.
2. Substations which serve only one industrial or street railway customer should not be listed below.
3. Substations with capacities of Less than 10 MVa except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVa)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	LAWNDALE - SAGINAW	Trans Unattended	138.00	46.00	21.00
2	LAYTON - MAPLE GROVE	Trans Unattended	138.00	46.00	
3	LEE STREET - WYOMING TWP	Distrib Unattended	46.00	12.47	
4	LEFFINGWELL - GRAND APIDS TWP	Distrib Unattended	46.00	12.47	
5	LEITH STREET - BURTON TWP	Distrib Unattended	46.00	8.32	
6	LENNON ROAD - FLINT TWP	Distrib Unattended	46.00	8.32	
7	LETTS ROAD - LARKIN TWP	Distrib Unattended	138.00	24.90	
8	LEVEL PARK - BEDFORD TWP	Distrib Unattended	46.00	8.32	
9	LEVELY - EDENVILLE TWP	Distrib Unattended	46.00	24.90	
10	LIBERTY - BATTLE CREEK TWP	Distrib Unattended	46.00	8.32	
11	LINDBERGH - OSHTEMO	Trans Unattended	138.00	46.00	15.20
12	LINDEN - FENTON TWP	Distrib Unattended	46.00	8.32	
13	LITCHFIELD - LITCHFIELD TWP	Distrib Unattended	46.00	8.32	
14	LOMBARD - SHERIDAN TWP	Distrib Unattended	46.00	8.32	
15	LONG LAKE - FENTON TWP	Distrib Unattended	46.00	8.32	
16	LOOKING GLASS - WATERTOWN	Trans Unattended	138.00	46.00	
17	LOVEJOY - BURNS TWP	Distrib Unattended	138.00	24.90	
18	LOVELL - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
19	MACATAWA - HOLLAND TWP	Distrib Unattended	46.00	8.32	
20	MACKINAW CITY - MACKINAW TWP	Distrib Unattended	46.00	24.90	
21	MANCHESTER - MANCHESTER TWP	Distrib Unattended	46.00	8.32	
22	MANISTEE - FILER TWP	Distrib Unattended	46.00	12.47	
23	MANLIUS - MANLIUS	Distrib Unattended	138.00	46.00	10.50
24	MAPLE GROVE - FRIUTPORT TWP	Distrib Unattended	46.00	12.47	
25	MARKEY - MARKEY TWP	Distrib Unattended	46.00	8.32	
26	MARQUETTE - EASTON	Trans Unattended	138.00	46.00	7.00
27	MASON - VEVAY TWP	Distrib Unattended	46.00	8.32	
28	MAUMEE - ADRIAN TWP	Distrib Unattended	46.00	12.47	
29	MAYFAIR - MT MORRIS TWP	Distrib Unattended	46.00	8.32	
30	MCBAIN - RICHLAND TWP	Distrib Unattended	46.00	24.90	
31	MCCRACKEN - NORTON TWP	Distrib Unattended	46.00	12.47	
32	MCGULPIN - MACKINAW CITY	Trans Unattended	138.00	46.00	5.25
33	MEADOWBROOKE - CALEDONIA TWP	Distrib Unattended	138.00	12.47	
34	MECOSTA - GREEN	Trans Unattended	138.00	46.00	
35	MENDON - NOTTAWA TWP	Distrib Unattended	46.00	24.90	
36			46.00	8.32	
37	MICHIGAN - CITY OF GRAND RAPIDS	Distrib Unattended	138.00	12.47	
38	MICHIGAN CENTER - SUMMIT TWP	Distrib Unattended	46.00	8.32	
39	MICOR - SUMMIT TWP	Distrib Unattended	46.00	8.32	
40	MIDDLEVILLE - THORNAPPLE TWP	Distrib Unattended	46.00	8.32	

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SUBSTATIONS (Continued)

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Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
160	2					1
30	1					2
25	2					3
25	2					4
22	3					5
33	3					6
23	2					7
12	1					8
13	1					9
16	2					10
100	1					11
13	1					12
13	1					13
14	1					14
14	1					15
60	1					16
10	1					17
28	4					18
13	2					19
13	1					20
13	1					21
20	1					22
38	1					23
25	2					24
10	1					25
40	2					26
13	1					27
13	1					28
30	3					29
11	2					30
24	3					31
30	2					32
32	2					33
60	2					34
23	3					35
						36
20	1					37
13	1					38
13	1					39
13	1					40

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SUBSTATIONS

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Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	MIDLAND - MIDLAND TWP	Distrib Unattended	46.00	8.32	
2	MIDWAY - GUN PLAIN TWP	Distrib Unattended	46.00	8.32	
3	MILES ROAD - SOUTH ARM	Trans Unattended	138.00	46.00	7.60
4	MILHAM - PORTAGE	Trans Unattended	138.00	46.00	15.00
5	MILL GROVE - ALLEGAN TWP	Distrib Unattended	46.00	24.90	
6	MILLER ROAD - FLINT TWP	Distrib Unattended	46.00	8.32	
7	MILLERS POINT - KALAMAZOO TWP	Distrib Unattended	138.00	8.32	
8	MILTON - BIG RAPIDS TWP	Distrib Unattended	46.00	12.47	
9	MIO DAM - BIG CREEK TWP	Trans Unattended	138.00	2.50	
10			2.50	12.00	
11			2.50	4.80	
12	MOLINE - DORR TWP	Distrib Unattended	46.00	8.32	
13	MONA LAKE - FRUITPORT TWP	Distrib Unattended	46.00	12.47	
14	MONITOR - MONITOR	Trans Unattended	138.00	46.00	
15	MONTROSE - MONTROSE TWP	Distrib Unattended	46.00	8.32	
16	MOORE ROAD - FAYETTE	Trans Unattended	138.00	46.00	
17	MORGAN - PENNFIELD TWP	Distrib Unattended	46.00	8.32	
18	MORLEY - BUENA VISTA TWP	Distrib Unattended	46.00	8.32	
19	MORRELL - SUMMIT	Distrib Unattended	46.00	8.32	
20	MORROW - MORROW	Trans Unattended	138.00	46.00	7.59
21	MT MORRIS - MT MORRIS TWP	Distrib Unattended	46.00	8.32	
22	MT PLEASANT - UNION TWP	Distrib Unattended	46.00	8.32	
23	MULLINS - WALKER TWP	Distrib Unattended	138.00	12.47	
24	MUSKEGON HEIGHTS - MUSKEGON TWP	Distrib Unattended	138.00	46.00	21.00
25			138.00	12.47	
26	NEFF ROAD - THETFORD TWP	Distrib Unattended	138.00	24.90	
27	NEWBURG - VERNON TWP	Distrib Unattended	46.00	24.90	
28	NIAGARA - SAGINAW TWP	Distrib Unattended	46.00	8.32	
29	NINETEEN - GREEN TWP	Distrib Unattended	138.00	12.47	
30	NORTH BELDING - OTISCO	Trans Unattended	138.00	46.00	7.60
31	NORTH CORUNNA - CALEDONIA TWP	Distrib Unattended	138.00	8.32	
32	NORTH KENT - PLAINFIELD TWP	Distrib Unattended	46.00	12.47	
33	NORTH LANSING - DEWITT TWP	Distrib Unattended	46.00	8.32	
34	NORTH MUSKEGON - MUSKEGON TWP	Distrib Unattended	46.00	12.47	
35	NORTH PARK - GRAND RAPIDS TWP	Distrib Unattended	46.00	12.47	
36	NORTHERN FIBRE - OLIVE TWP	Distrib Unattended	138.00	8.32	
37	NORTON - FRUITPORT TWP	Distrib Unattended	46.00	12.47	
38	OAK STREET - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
39	OAKLAND - HOLLY TWP	Trans Unattended	138.00	46.00	7.50
40	OAKWOOD - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
13	1					1
13	1					2
30	1					3
60	1					4
10	1					5
13	1					6
40	2					7
14	1					8
18	5					9
						10
						11
13	1					12
14	1					13
68	2					14
11	2					15
160	2					16
13	1					17
10	1					18
13	1					19
130	3					20
13	1					21
13	1					22
20	1					23
160	3					24
						25
13	1					26
11	1					27
13	1					28
13	1					29
30	1					30
13	1					31
31	3					32
10	1					33
20	1					34
20	1					35
13	1					36
10	1					37
18	2					38
30	1					39
13	1					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve only one industrial or street railway customer should not be listed below.
- Substations with capacities of Less than 10 MVA except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	OBERLIN - SAGE TWP	Distrib Unattended	46.00	24.90	
2	OGE MAW - WEST BRANCH	Trans Unattended	138.00	46.00	5.25
3	OHMAN ROAD - EVART TWP	Distrib Unattended	138.00	24.90	
4	OLIVER - OWOSSO TWP	Distrib Unattended	46.00	8.32	
5	ORCHARD ROAD - MIDLAND TWP	Distrib Unattended	46.00	8.32	
6	ORIOLE - PERE MARQUETTE TWP	Distrib Unattended	46.00	24.90	
7	OTISVILLE - FOREST TWP	Distrib Unattended	46.00	8.32	
8	OTTAWA BEACH - PARK TWP	Distrib Unattended	46.00	8.32	
9	OVID - OVID TWP	Distrib Unattended	6.00	8.32	
10	OWOSSO - CALEDONIA TWP	Distrib Unattended	138.00	46.00	15.20
11			46.00	8.32	
12	PAGE AVENUE - LEONI	Trans Unattended	140.00	46.00	15.00
13	PALMER - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
14	PARKWAY - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
15	PARNALL - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
16	PARR ROAD - MANCHESTER	Trans Unattended	138.00	46.00	10.50
17	PASADENA - FLINT TWP	Distrib Unattended	138.00	46.00	4.80
18			46.00	8.32	
19	PATTERSON - BANGOR TWP	Distrib Unattended	46.00	8.32	
20	PAVILION - PAVILION TWP	Distrib Unattended	138.00	8.32	
21	PEACOCK - BATH TWP	Distrib Unattended	46.00	8.32	
22	PECK ROAD - MONTCALM TWP	Distrib Unattended	46.00	24.90	
23	PERRY - PERRY TWP	Distrib Unattended	46.00	8.32	
24	PETTIS ROAD - ADA TWP	Distrib Unattended	138.00	24.90	
25	PHILLIPS - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
26	PIGEON LAKE - PORT SHELTON TWP	Distrib Unattended	46.00	8.32	
27	PINE RIVER - ARCADA TWP	Distrib Unattended	46.00	8.32	
28	PISTON RING - SPARTA TWP	Distrib Unattended	138.00	12.47	
29			46.00	8.32	
30	PITCHER - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
31	PLAINFIELD - PLAINFIELD TWP	Distrib Unattended	46.00	8.32	
32	PLAINWELL - GUN PLAIN TWP	Distrib Unattended	46.00	8.32	
33	PORT CALCITE - ROGERS TWP	Distrib Unattended	138.00	13.80	
34	PORT SHELTON - PORT SHELTON	Trans Unattended	138.00	46.00	7.50
35	PORTAGE - PORTAGE TWP	Distrib Unattended	46.00	8.32	
36	PORTER - GRAND BLANC TWP	Distrib Unattended	138.00	8.32	
37	PORTSMOUTH - BLUMFIELD TWP	Distrib Unattended	138.00	24.90	
38	POTTER - SAGINAW TWP	Distrib Unattended	46.00	8.32	
39	POTTERVILLE - BENTON TWP	Distrib Unattended	46.00	8.32	
40	QUINCY - QUINCY TWP	Distrib Unattended	46.00	8.32	

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVa) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVa) (k)	
10	1					1
15	1					2
13	1					3
13	1					4
20	2					5
25	2					6
13	1					7
13	1					8
13	1					9
125	3					10
						11
60	1					12
25	2					13
25	2					14
20	2					15
40	1					16
113	3					17
						18
13	1					19
20	1					20
14	1					21
13	1					22
13	1					23
13	1					24
25	2					25
13	1					26
13	1					27
30	2					28
						29
11	2					30
13	1					31
13	1					32
20	2					33
50	1					34
25	2					35
13	1					36
10	1					37
40	2					38
13	1					39
13	1					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve only one industrial or street railway customer should not be listed below.
- Substations with capacities of Less than 10 MVA except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVA)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	RACE STREET - GRAND RAPIDS	Trans Unattended	138.00	46.00	16.00
2	RAISIN - RAISIN	Trans Unattended	138.00	46.00	10.50
3	RAMONA - GRAND RAPIDS TWP	Distrib Unattended	46.00	12.47	
4	RANKIN - MUNDY TWP	Distrib Unattended	46.00	8.32	
5	RANSOM - JAMESTOWN	Trans Unattended	138.00	46.00	15.00
6	RAVENNA - RAVENNA TWP	Distrib Unattended	46.00	12.47	
7			46.00	8.32	
8	RAVINE - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
9	RED ARROW - BURTON TWP	Distrib Unattended	46.00	8.32	
10	REED CITY - ALGOMA TWP	Distrib Unattended	46.00	8.32	
11	REMUS - WHEATLAND TWP	Distrib Unattended	46.00	8.32	
12	RICE CREEK - SHERIAN	Trans Unattended	138.00	46.00	10.50
13	RIGGSVILLE - IVERNESS	Trans Unattended	138.00	46.00	5.25
14	RIVERTOWN - CITY OF GRANDVILLE	Distrib Unattended	138.00	12.47	
15	RIVERVIEW - RIVERVIEW	Trans Unattended	138.00	46.00	15.20
16	RIX ROAD - OSHTIMO TWP	Distrib Unattended	46.00	8.32	
17	ROBERTS STREET - BLACKMAN	Distrib Unattended	46.00	8.32	
18	ROCKFORD - ALGOMA TWP	Distrib Unattended	46.00	24.90	
19			46.00	8.32	
20	RODNEY - COLFAX TWP	Distrib Unattended	46.00	24.90	
21	ROEDEL ROAD - FRANKENMUTH TWP	Distrib Unattended	138.00	8.32	
22	ROSEWOOD - GEORGETOWN TWP	Distrib Unattended	46.00	12.47	
23	RUSSELLVILLE - RICHFIELD TWP	Distrib Unattended	46.00	8.32	
24	RUTLAND - RUTLAND TWP	Distrib Unattended	46.00	8.32	
25	SAGINAW RIVER - ZILWAUKEE	Trans Unattended	138.00	46.00	10.50
26			138.00	23.00	10.50
27	SAGINAW STREET - BURTON TWP	Distrib Unattended	46.00	8.32	
28	SALEM - SALEM TWP	Distrib Unattended	46.00	8.32	
29	SAMARIA - BEDFORD	Trans Unattended	138.00	46.00	7.60
30	SANDERSON - EUREKA TWP	Distrib Unattended	138.00	24.90	
31	SANFORD DAM - JEROME TWP	Distrib Unattended	46.00	24.90	
32			46.00	8.32	
33	SARANAC - BOSTON TWP	Distrib Unattended	46.00	8.32	
34	SAUGATUCK - SAUGATUCK TWP	Distrib Unattended	46.00	8.32	
35	SAVIDGE - SPRING LAKE TWP	Distrib Unattended	138.00	12.47	
36	SCOTT LAKE - LEE	Trans Unattended	138.00	46.00	7.50
37	SEIDEL - SAGINAW TWP	Distrib Unattended	46.00	8.32	
38	SHAFFER - PARIS TWP	Distrib Unattended	46.00	12.47	
39	SHATTUCK - SAGINAW TWP	Distrib Unattended	46.00	8.32	
40	SHIELDS - SWAN CREEK TWP	Distrib Unattended	46.00	8.32	

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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

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Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
100	1					1
30	1					2
20	1					3
13	1					4
100	1					5
13	2					6
						7
13	1					8
27	2					9
18	2					10
12	2					11
40	1					12
30	2					13
32	2					14
200	2					15
10	2					16
20	1					17
33	2					18
						19
13	1					20
13	1					21
25	2					22
13	1					23
13	1					24
68	2					25
						26
40	2					27
13	1					28
78	2					29
14	1					30
13	2					31
						32
11	3					33
19	2					34
13	1					35
40	1					36
13	1					37
57	2					38
20	1					39
10	1					40

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SUBSTATIONS

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- Substations which serve only one industrial or street railway customer should not be listed below.
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Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVa)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	SILVER LAKE - GARFIELD TWP	Distrib Unattended	46.00	12.47	
2	SIMMONS - WEST BRANCH TWP	Distrib Unattended	138.00	24.90	
3	SIMPSON - MENDON	Trans Unattended	138.00	46.00	10.50
4	SKYLARK - GRAND BLANC TWP	Distrib Unattended	46.00	8.32	
5	SLOAN - FLINT TWP	Distrib Unattended	46.00	8.32	
6	SOLVAY - MADISON TWP	Distrib Unattended	138.00	24.90	
7	SOUTH WASHINGTON AY - SAGINAW TWP	Distrib Unattended	46.00	8.32	
8	SPAULDING - ADA	Trans Unattended	138.00	46.00	15.00
9	SPRING ARBOR - SPRING ARBOR TWP	Distrib Unattended	46.00	8.32	
10	SPRING DRIVE - BROOKS TWP	Distrib Unattended	46.00	24.90	
11	SPRINGFIELD - BATTLE CREEK TWP	Distrib Unattended	46.00	8.32	
12	SPRINKLE - PORTAGE TWP	Distrib Unattended	46.00	8.32	
13	SQUIRE HILL - CLAYTON TWP	Distrib Unattended	46.00	8.32	
14	ST JOHNS - BINGHAM TWP	Distrib Unattended	46.00	8.32	
15	STACEY - FLINT TWP	Distrib Unattended	138.00	24.90	
16	STANDALE - WALKER TWP	Distrib Unattended	46.00	12.47	
17	STANDISH - LINCOLN TWP	Distrib Unattended	46.00	8.32	
18	STANLEY - MT MORRIS TWP	Distrib Unattended	46.00	8.32	
19	STATE STREET - SAGINAW TWP	Distrib Unattended	46.00	8.32	
20	STEEL DRIVE - FENTON TWP	Distrib Unattended	46.00	8.32	
21	STERNS ROAD - ERIE TWP	Distrib Unattended	46.00	12.47	
22	STEVENS - WYOMING TWP	Distrib Unattended	46.00	12.47	
23	STOCKBRIDGE - STOCKBRIDGE TWP	Distrib Unattended	46.00	8.32	
24	STONEGATE - GRAND RAPIDS TWP	Distrib Unattended	138.00	12.47	
25	STOVER - STOVER	Trans Unattended	138.00	46.00	5.25
26	STRAITS PLANT - WAWATAM	Trans Unattended	46.00	13.80	
27	STRONACH - STRONACH	Trans Unattended	138.00	46.00	7.59
28	SUMMERTON - CHIPPEWA	Trans Unattended	138.00	46.00	7.60
29	SUMMIT - SUMMIT TWP	Distrib Unattended	46.00	8.32	
30	SWARTZ CREEK - CLAYTON TWP	Distrib Unattended	46.00	8.32	
31	SYLVAN - SYLVAN TWP	Distrib Unattended	46.00	8.32	
32	TALLMAN - EAGLE TWP	Distrib Unattended	138.00	24.90	
33	TANIUM - MONTAGUE TWP	Distrib Unattended	46.00	12.47	
34	TECUMSEH - TECUMSEH TWP	Distrib Unattended	46.00	12.47	
35	TEFT - SWAN CREEK TWP	Distrib Unattended	46.00	8.32	
36	TEMPERANCE - BEDFORD TWP	Distrib Unattended	46.00	12.47	
37	TERRACE - MUSKEGON TWP	Distrib Unattended	46.00	12.47	
38	THOMAS - THOMAS TWP	Distrib Unattended	46.00	8.32	
39	THORNAPPLE - ADA TWP	Distrib Unattended	46.00	8.32	
40	TIHART - MERIDIAN	Trans Unattended	140.00	48.00	

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SUBSTATIONS (Continued)

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Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
13	1					1
13	1					2
38	1					3
25	2					4
13	1					5
13	1					6
13	1					7
100	1					8
10	1					9
13	1					10
10	1					11
25	2					12
10	1					13
13	2					14
13	1					15
25	2					16
10	1					17
13	1					18
13	1					19
13	2					20
14	1					21
13	2					22
14	1					23
45	2					24
50	1					25
25	1					26
30	1					27
70	2					28
13	1					29
13	1					30
13	1					31
11	1					32
13	1					33
18	2					34
10	1					35
13	1					36
10	1					37
13	1					38
13	2					39
90	2					40

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SUBSTATIONS

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Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVa)		
			Primary (c)	Secondary (d)	Tertiary (e)
1			138.00	46.00	7.59
2	TINSMAN - HOLLY TWP	Distrib Unattended	138.00	8.32	
3	TIPPY HYDRO - DICKSON TWP	Trans Unattended	150.00	7.50	
4	TITUS LAKE - WAYLAND TWP	Distrib Unattended	138.00	8.32	
5	TROWBRIDGE - TROWBRIDGE	Trans Unattended	138.00	46.00	5.25
6	TUCKER - HOLLY TWP	Distrib Unattended	46.00	8.32	
7	TWELFTH STREET - PORTAGE	Distrib Unattended	138.00	8.32	
8	TWILIGHT - COMSTOCK TWP	Distrib Unattended	138.00	8.32	
9	TWINING - TWINING	Trans Unattended	138.00	46.00	
10	ULMER - BIRCH RUN TWP	Distrib Unattended	46.00	8.32	
11	UPTON - DELTA TWP	Distrib Unattended	46.00	8.32	
12	VAN ATTA - MERIDIAN TWP	Distrib Unattended	138.00	8.32	
13	VANDERCOOK LAKE - SUMMIT TWP	Distrib Unattended	46.00	8.32	
14	VERONA - PENNFIELD	Trans Unattended	138.00	46.00	15.20
15	VEVAY - VEVAY TWP	Trans Unattended	138.00	46.00	7.60
16	VILLAGE GREEN - PORTAGE TWP	Distrib Unattended	46.00	8.32	
17	VIRGINIA PARK - LAKETOWN TWP	Distrib Unattended	46.00	8.32	
18	VROOMAN - SUMMIT	Trans Unattended	138.00	46.00	15.00
19	WACKERLY - WACKERLY	Trans Unattended	138.00	46.00	10.50
20	WAGER - GENESEE TWP	Distrib Unattended	46.00	8.32	
21	WALDO - MIDLAND TWP	Distrib Unattended	46.00	8.32	
22	WALKER - WALKER TWP	Distrib Unattended	46.00	12.47	
23	WALLACE - KALAMAZOO TWP	Distrib Unattended	46.00	13.80	
24	WALNUT - BURTON TWP	Distrib Unattended	46.00	8.32	
25	WARNER - PRAIREVILLE TWP	Distrib Unattended	138.00	24.90	
26	WARREN - WARREN TWP	Trans Unattended	138.00	46.00	10.50
27	WASHINGTON - PERE MARQUETT TWP	Distrib Unattended	46.00	12.47	
28			46.00	8.32	
29	WASHTENAW - CHELSEA	Trans Unattended	138.00	46.00	7.50
30	WATKINS - BATTLE CREEK TWP	Distrib Unattended	46.00	8.32	
31	WAYLAND - WAYLAND TWP	Distrib Unattended	138.00	48.00	5.25
32			46.00	8.32	
33	WEADOCK J C PLANT - WEADOCK J C	Trans Attended	138.00	46.00	7.50
34	WEALTHY STREET - WALKER TWP	Trans Unattended	138.00	46.00	
35			138.00	12.47	
36	WEBSTER - MT MORRIS TWP	Distrib Unattended	46.00	8.32	
37	WEST RIVER - GRAND RAPIDS TWP	Distrib Unattended	46.00	12.47	
38	WEST ROAD - LANSING TWP	Distrib Unattended	46.00	8.32	
39	WESTERN AVENUE - LAKETON TWP	Distrib Unattended	46.00	12.47	
40	WESTERVELT - ZILWAUKEE TWP	Distrib Unattended	46.00	8.32	

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
						1
13	1					2
15	1					3
13	1					4
20	1					5
13	1					6
13	1					7
12	1					8
30	4					9
13	1					10
13	1					11
12	1					12
13	1					13
200	2					14
40	1					15
25	2					16
13	1					17
60	1					18
67	2					19
13	1					20
13	1					21
20	1					22
20	1					23
18	2					24
11	1					25
30	1					26
16	6					27
						28
30	1					29
25	2					30
33	2					31
						32
200	2					33
220	9					34
						35
10	1					36
13	1					37
10	1					38
35	3					39
13	1					40

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of 2004/Q4
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SUBSTATIONS

- Report below the information called for concerning substations of the respondent as of the end of the year.
- Substations which serve only one industrial or street railway customer should not be listed below.
- Substations with capacities of Less than 10 MVa except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
- Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whether attended or unattended. At the end of the page, summarize according to function the capacities reported for the individual stations in column (f).

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE (In MVa)		
			Primary (c)	Secondary (d)	Tertiary (e)
1	WESTWOOD - BLACKMAN	Distrib Unattended	46.00	8.32	
2	WEXFORD - HARING	Trans Unattended	138.00	46.00	
3			46.00	15.00	
4	WHITE LAKE - MONTAGUE	Trans Unattended	140.00	48.00	10.50
5			138.00	46.00	7.60
6	WHITEHALL - MONTAGUE TWP	Distrib Unattended	46.00	12.47	
7			46.00	8.32	
8	WHITING J R PLANT - LUNA PIER	Trans Attended	138.00	46.00	10.50
9	WILDWOOD - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
10	WILLARD - BIRCH RUN	Trans Unattended	138.00	46.00	
11	WILLIAMS - ALLEGAN TWP	Distrib Unattended	46.00	8.32	
12	WILMOTT - OSTEGO TWO	Distrib Unattended	46.00	8.32	
13	WISNER - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
14	WOOD STREET - FLINT TWP	Distrib Unattended	46.00	8.32	
15	WYOMING PARK - WYOMING TWP	Distrib Unattended	46.00	12.47	
16					
17					
18	SUBSTATIONS SERVING RESALE CUSTOMERS				
19	CHELSEA - CHELSEA	Resale Distrib Unatt	46.00	8.32	
20	EATON RAPIDS - EATON RAPIDS	Resale Distrib Unatt	46.00	8.32	
21	EATON RAPIDS MUNICIPAL - EATON RAPIDS	Resale Distrib Unatt	46.00	12.47	
22	PROGRESS STREET - ALPENA	Resale Distrib Unatt	138.00	12.47	
23	ST LOUIS - ST LOUIS	Resale Distrib Unatt	46.00	8.32	
24			46.00	4.16	
25					
26					
27	SUMMARY INFORMATION				
28					
29	SUBSTAIONS GREATER THAN 10,000 KVa	533			
30					
31	SUBSTATIONS SERVING ONE CUSTOMER	234			
32					
33	SUBSTATIONS LESS THAN 10,000KVa	266			
34					
35					
36					
37					
38					
39					
40					

Name of Respondent Consumers Energy Company	This Report Is: (1) <input checked="" type="checkbox"/> An Original (2) <input type="checkbox"/> A Resubmission	Date of Report (Mo, Da, Yr) / /	Year/Period of Report End of <u>2004/Q4</u>
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SUBSTATIONS (Continued)

5. Show in columns (l), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary equipment for increasing capacity.

6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease, and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses or other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Capacity of Substation (In Service) (In MVA) (f)	Number of Transformers In Service (g)	Number of Spare Transformers (h)	CONVERSION APPARATUS AND SPECIAL EQUIPMENT			Line No.
			Type of Equipment (i)	Number of Units (j)	Total Capacity (In MVA) (k)	
10	2					1
77	5					2
						3
						4
88	2					5
						6
24	3					7
						8
38	1					9
13	2					10
30	1					11
12	2					12
13	1					13
10	1					14
13	1					15
13	1					16
						17
						18
						19
10	1					20
6	1					21
20	1					22
10	1					23
16	2					24
						25
						26
						27
						28
15456	785	4				29
						30
3965	351	2				31
						32
1366	315	17				33
						34
						35
						36
						37
						38
						39
						40

ELECTRIC DISTRIBUTION METERS AND LINE TRANSFORMERS

1. Report below the information called for concerning distribution watt-hour meters and line transformers.
2. Include watt-hour demand distribution meters, but not external demand meters.
3. Show in a footnote the number of distribution watt-hour meters or line transformers held by the respondent under lease from others, jointly owned with others, or held otherwise than by reason of sole ownership by the respondent. If 500 or more meters or line transformers are held under a lease, give name of lessor, date and period of lease, and annual rent. If 500 or more meters or line transformers are held other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of accounting for expenses between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Line No.	Item (a)	Number of Watt-Hour Meters (b)	LINE TRANSFORMERS	
			Number (c)	Total Capacity (In MVA) (d)
1	Number at Beginning of Year	1,817,765	593,562	
2	Additions During Year			
3	Purchases	61,355	17,546	
4	Associated with Utility Plant Acquired			
5	Total Additions (Enter Total of lines 3 and 4)	61,355	17,546	
6	Reductions During Year			
7	Retirements	49,240	(6,430)	
8	Associated with Utility Plant Sold			
9	Total Reductions (Enter Total of lines 7 and 8)	49,240	(6,430)	
10	Number at End of Year (Lines 1+5-9)	1,829,880	604,678	
11	In Stock	39,117		
12	Locked Meters on Customers' Premises	64,000		
13	Inactive Transformers on System		32,273	
14	In Customers' Use	1,726,763	572,405	
15	In Company's Use	-	-	
TOTAL End of Year (Enter Total of line 11 to 15.				
16	This line should equal line 10.)	1,829,880	604,678	

ENVIRONMENTAL PROTECTION FACILITIES

1. For purposes of this response, environmental protection facilities shall be defined as any building, structure, equipment, facility, or improvement designed and constructed solely for control, reduction, prevention or abatement of discharges or releases into the environment of gaseous, liquids, or solid substances, heat, noise or for the control, reduction prevention, or abatement of any other adverse impact of an activity on the environment.

2. Report the differences in cost of facilities installed for environmental considerations over the cost of alternative facilities which would otherwise be used without environmental considerations. Use the best engineering design achievable without environmental considerations. It is not intended that special design studies be made for purposes of this response. Base the response on the best engineering judgement where direct comparisons are not available.

Include in these differences in costs the costs or estimated costs of environmental protection facilities in service, constructed or modified in connection with the production, transmission, and distribution of electrical energy and shall be reported herein for all such environmental facilities placed in service on or after January 1, 1969, so long as it is readily determinable that such facilities were constructed or modified for environmental rather than operational purposes. Also report similar expenditures for environmental plant included in construction work in progress. Estimate the cost of facilities when the original cost is not available or facilities are jointly owned with another utility, provided the respondent explains the basis of such explanations. Examples of these costs would include a portion of the costs of tall smokestacks, underground lines, and landscaped substations. Explain such costs in a footnote.

3. In the cost of facilities reported on this page, include an estimated portion of the cost of plant that is or will be used to provide power to operate associated environmental protection facilities. These costs may be estimated on a percentage of plant basis. Explain such estimations in a footnote.

4. Report all costs under the major classifications provided below and include, as a minimum, the items listed hereunder:

A. Air pollution control facilities:

- (1) Scrubbers, precipitators, tall smokestacks, etc. (2) Changes necessary to accommodate use of environmentally clean fuels such as low ash or low sulfur fuels including storage and handling equipment. (3) Monitoring Equipment (4) Other.

B. Water pollution control facilities:

- (1) Cooling towers, ponds, piping, pumps, etc. (2) Waste water treatment equipment (3) Sanitary waste disposal equipment (4) Oil interceptors (5) Sediment control facilities (6) Monitoring equipment (7) Other.

C. Solid waste disposal costs:

- (1) Ash handling and disposal equipment (2) Land (3) Settling ponds (4) Other.

D. Noise abatement equipment:

- (1) Structures (2) Mufflers (3) Sound proofing equipment (4) Monitoring equipment (5) Other.

E. Esthetic costs:

- (1) Architectural costs (2) Towers (3) Underground lines (4) Landscaping (5) Other.

F. Additional plant capacity necessary due to restricted output from existing facilities, or addition of pollution control facilities.

G. Miscellaneous:

- (1) Preparation of environmental reports (2) Fish and wildlife plants included in Accounts 330, 331, 332, and 335 (3) Parks and related facilities (4) Other.

5. In those instances when costs are composites of both actual supportable costs and estimates of costs, specify in column (f) the actual costs that are included in column (e).

6. Report construction work in progress relating to environmental facilities at line 9.

Line No.	Classification of Cost (a)	CHANGES DURING YEAR			Balance at End of Year (e)	Actual Cost (f)
		Additions (b)	Retirements (c)	Adjustments (d)		
1	Air Pollution Control Facilities	43,365,671			756,443,342	
2	Water Pollution Control Facilities	559,496	323,078		237,265,168	
3	Solid Waste Disposal Costs	28			78,825,212	
4	Noise Abatement Equipment	-			1,538,548	
5	Esthetic Costs	-			26,944,000	
6	Additional Plant Capacity	-			14,286,000	
7	Miscellaneous (Identify significant)	1,106,604			101,226,741	
8	TOTAL (Total of lines 1 thru 7)	45,031,799			1,216,529,011	
9	Construction Work in Progress				187,182,724	

Miscellaneous (Line 7):	<u>Yr 2004</u>
<u>Environmental Protection</u>	
Fossil Plants 316b Fish Entrainment	60,858
K/W/CT's SPCC Oil Containment	377,115
JRW Oil Containment	49,727
LPS Oil Containment	13,140
Recreation License Initiative - LPS Barrier Net/Monitoring	77,263
<u>Flood & Erosion Control Protection</u>	
Hydro Plt Flow Gauging/Water Qual Monitoring & Comm System	10,455
Spillway Mods - Hodenpyl & Mio	<u>518,046</u>
Total	1,106,604

ENVIRONMENTAL PROTECTION EXPENSES			
<p>1. Show below expenses incurred in connection with the use of environmental protection facilities, the cost of which are reported on page 430. Where it is necessary that allocations and/or estimates of costs be made, state the basis or method used.</p> <p>2. Include below the costs incurred due to the operation of environmental protection equipment, facilities, and programs.</p> <p>3. Report expenses under the subheadings listed below.</p> <p>4. Under item 6 report the difference in cost between environmentally clean fuels and the alternative fuels that would otherwise be used and are available for use.</p> <p>5. Under item 7 include the cost of replacement power, purchased or generated, to compensate for the deficiency in output from existing plants due to the addition of pollution control equipment, use of alternate environmentally preferable fuels or environmental regulations of governmental bodies. Base the price of replacement power purchased on the average system price of purchased power if the actual cost of such replacement power is not known. Price internally generated replacement power at the system average cost of power generated if the actual cost of specific replacement generation is not known.</p> <p>6. Under item 8 include ad valorem and other taxes assessed directly on or directly relatable to environmental facilities. Also include under item 8 licensing and similar fees on such facilities.</p> <p>7. In those instances where expenses are composed of both actual supportable data and estimates of costs, specify in column (c) the actual expenses that are included in column (b).</p>			
Line No.	Classification of Expenses (a)	Amount (b)	Actual Expenses (c)
1	Depreciation		
2	Labor, Maintenance, Materials, and Supplies Cost Related to Env. Facilities and Programs	11,441,787	11,441,787
3	Fuel Related Costs		
4	Operation of Facilities		
5	Fly Ash and Sulfur Sludge Removal	1,217,038	1,217,038
6	Difference in Cost of Environmentally Clean Fuels (1)	(191,518,000)	
7	Replacement Power Costs (2) W/Palisades	8,391,000	8,391,000
8	Taxes and Fees		
9	Administrative and General		
10	Other (Identify significant)		
11	TOTAL	(170,468,175)	21,049,825
	<p>(1) Estimate based on the difference between the actual cost of environmentally preferable low-sulfur fuels and the estimated cost of high-sulfur fuels. The market price of high sulfur fuels increased significantly in 2004.</p> <p>(2) Based on the average price of interchange power. Energy cost of electrostatic precipitators is included utilizing the average production cost for the year.</p>		

FOOTNOTE DATA			
Page Number (a)	Item Number (b)	Column Number (c)	Comments (d)
Various	Various	Various	Amounts on schedules may not add to the totals and/or cross-referenced schedules may not reconcile due to roundings.